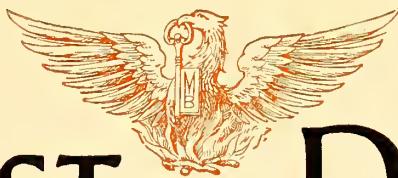


The



CHEMIST AND DRUGGIST

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

No. 2978
VOL. CXXVI

MARCH 6, 1937

Annual Subscription (with
Diary) 20/- Single Copies 9d.

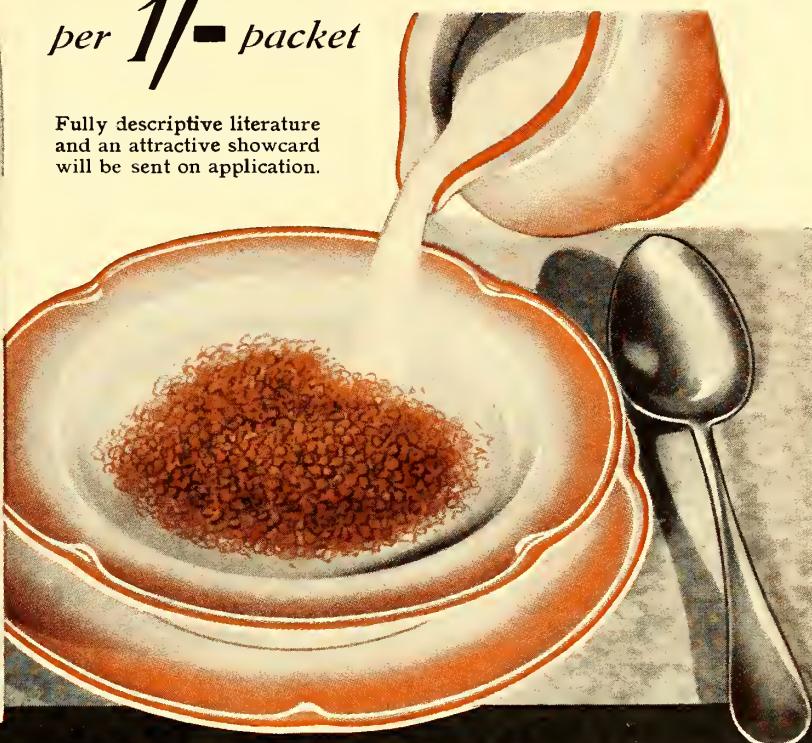
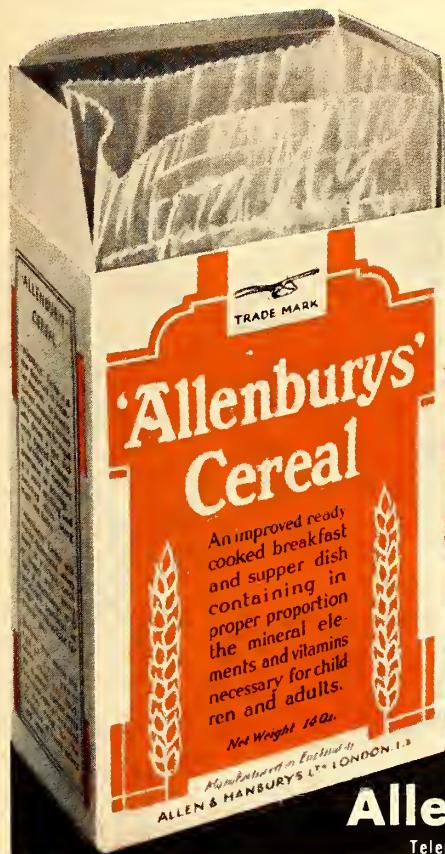
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THE BREAKFAST FOOD CHEMISTS ARE SELLING

A large number of chemists seized the opportunity presented by the introduction of Allenburys Cereal to create new and profitable business.

per 1/- packet

Fully descriptive literature
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Telegrams: "Greenburys, Beth, London."

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HALIVEROL

HALIVEROL
Capsules

HALIVEROL
Capsules

HALIVEROL
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Capsules

Parke Davis & Co.

SEND FOR TERMS

for
Effectiveness
and
Real Profit

PARKE, DAVIS & CO., 50, BEAK ST., LONDON W.I.

Advertised Everywhere

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REGISTERED

The Wonder Tablet

**For the Veins,
Arteries & Heart**

DAY in, day out, year in and year out, the large space advertising for Elasto continues. People throughout the country are constantly reading about this new biological remedy for Varicose Veins, Bad Leg and other Circulatory Disorders.

Show Elasto It Sells on Sight

Are **you** taking full advantage of this opportunity for **new** business created by this vigorous and consistent campaign? The public **will** have Elasto, so let them know **you** can supply. A reminder in your window will bring to your counter the customer we have already created. Attractive Show Material gladly sent free on request.

THE NEW ERA TREATMENT CO., LTD.
[Dept. C.D.] Cecil House, Holborn Viaduct,
London



5/- per Box
(One Month's Supply)

45/- per Doz.
(P.A.T.A.)

One and Threepence Profit on every Sale!

March winds, April showers bring forth

a whole heap of business in

Brustine BRAND

NOSE &
THROAT

Bon-bons

The most treacherous months of the year (March and April) are immediately ahead. This is the time when Brustine Bon-bons are most beneficial.

Look well to your stock. Order NOW to be safe.



★ HOW THEY SELL

Brustine Bon-Bons are sold through Chemists only at a fixed retail price of 6d. per qtr. They show a profit of 50% on cost. With every initial order we will send a unique clockwork Sales Bringer which is yours for as long as you wish. This and other show material, together with the free samples sent with every order, will quickly attract highly profitable sales and their efficacy will guarantee your repeat business.

★ HOW THEY'RE PACKED

Brustine Bon-Bons are sold in 28 lb. case units containing 14 lbs. of each kind packed in 7 lb. tins. They are supplied loose, but with every case will be sent FREE 112 printed bags (to hold $\frac{1}{2}$ lb.). 50 samples packed for FREE distribution and with every order for 10 cases ONE CASE WILL BE SUPPLIED FREE IN ADDITION.

DON'T RUN OUT OF 'BRUSTINE DURING THESE TWO SPECIALLY GOOD MONTHS

MANUFACTURED BY
BRUSTOC LTD., JOHN ST., WARRINGTON

Distributors for Yorkshire
HIRST, BROOKE & HIRST Ltd., Sheepscar Works, LEEDS

Distributors for Manchester and East Lancs.
D. MAWDSLEY & CO., Riga Street, MANCHESTER

Distributors for London and Home Counties :
BARTLETT DISTRIBUTING CO. LTD.
26-31 HATTON GARDEN, E.C.1

CROOKES'

PURE HALIBUT LIVER

COLLOSOL OIL BRAND (Regd)

Products

HALIMALT : HALYCITROL : HALIDEXOL

HALYCALCYNE : HALIBUT LIVER OIL

HALIBUT LIVER OIL CAPSULES

Available to the retail trade
at exceptionally advantageous
bonus terms.



THE CROOKES LABORATORIES

(British Colloids Ltd.)

PARK ROYAL, LONDON, N.W.10.

Telephone: Willesden 6313 (3 lines)

Telegrams: Collosols, Harles, London.

T.G.S.

We've moved! to LINTHWAITE

Once again the artistic temperament cavils at sober fact. Really we have no elephants or camels on our transport staff; nor do we use chemists as beasts of burden. The caravanserai depicted below is symbolic or something—anyway, it's purely a figment of our artist's fancy, as you have no doubt guessed.

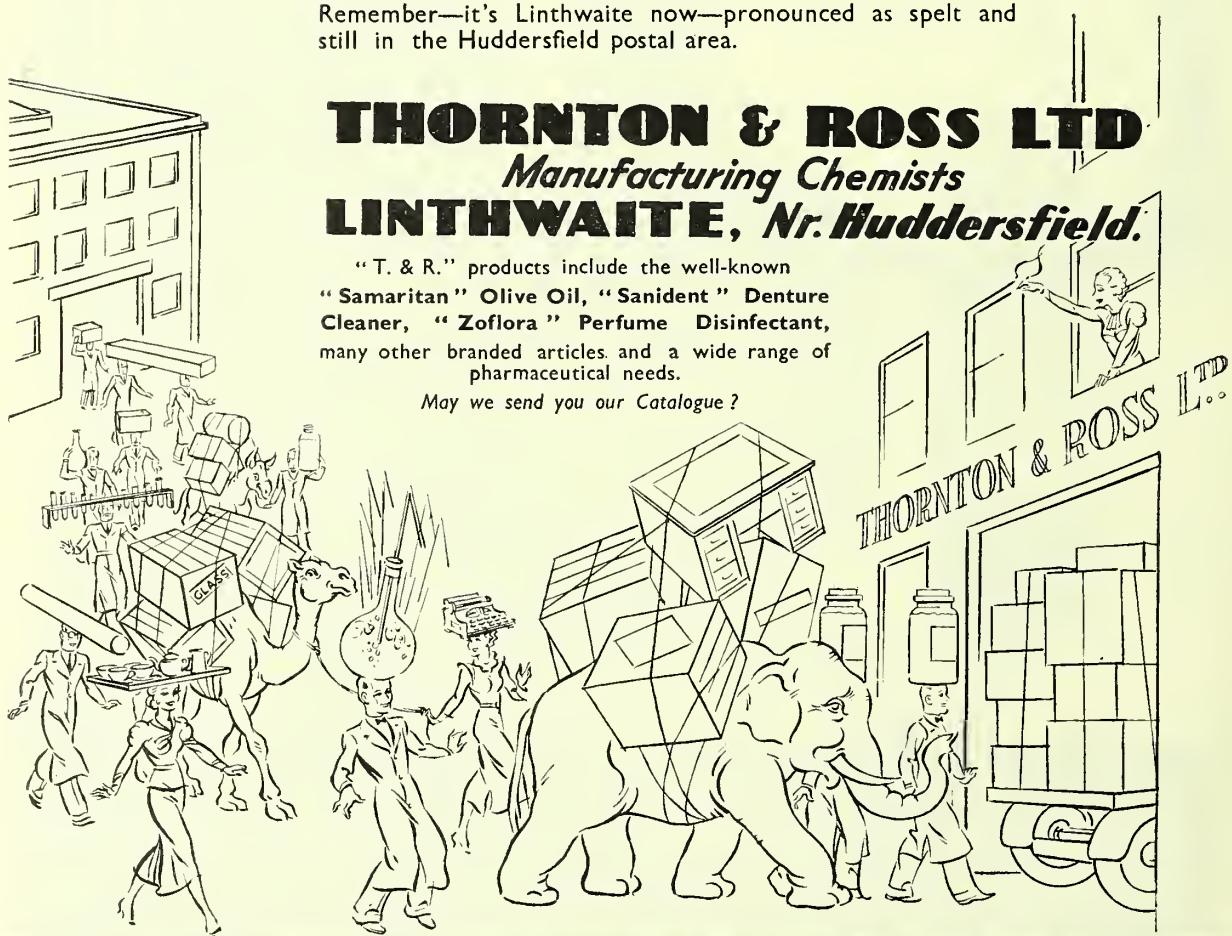
However, we are now firmly and comfortably established in our new factory at Linthwaite, with space for further developments such as no longer existed at the old place. We are ready for every possible demand upon our services—with an improved organisation, more plant and a greater ability to bear up under the joyous anguish of "growing pains."

Remember—it's Linthwaite now—pronounced as spelt and still in the Huddersfield postal area.

THORNTON & ROSS LTD *Manufacturing Chemists* LINTHWAITE, Nr. Huddersfield.

"T. & R." products include the well-known "Samaritan" Olive Oil, "Sanident" Denture Cleaner, "Zoflora" Perfume Disinfectant, many other branded articles and a wide range of pharmaceutical needs.

May we send you our Catalogue?



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GALLSTONES

Any sufferers from this distressing malady will appreciate your recommendation of

TAB. CHELIDON CO.

(H. H. & CO.)

a well-tried remedy for dissolving Gallstones. This reliable Cholagogue and urinary antiseptic is an admirable preparation affording endless opportunity to enterprising chemists.

PRICE IN BULK : 32/- per 1,000 net.

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'Grams: "Salicylate, Manchester" (3)

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When you tender for

Disinfectants

to Hospitals, Public Institutions, Local Councils, &c.
REMEMBER that

BURT, BOULTON & HAYWOOD LTD. Managers to
the **PRINCE REGENT TAR COMPANY, LTD.**
give you special terms for contracts.

Carbolic Disinfecting Fluids containing 3% to 80% Tar Acids.
White Disinfecting Fluids—miscible in salt, fresh or brackish water, Co-efficients 10/12, 18/20, 20/22, 24/26.

Lysol B.P. Quality. Pine Disinfecting Fluids.

Pink Carbolic Disinfecting Powders containing 5% to 20% Tar Acids.

Carbolic Sheep Dips, approved by the Ministry of Agriculture under the Sheep Scab order.

Tar Acids and Rideal Walker Co-efficiency guaranteed. May be sold by Chemists and Druggists under own name.

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(Managers : **BURT, BOULTON & HAYWOOD, LTD.**)

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Phone: Temple Bar 5801 (5 lines) Telegrams: "Burboul, Rand, London."

... relieve complaints at the site of the trouble

Turipolo



To prevent infection from influenza and colds
for Instillation into the nose. For acute and chronic catarrh
of the nose and throat . . .

Sole distributing agent in Great Britain

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FOR SOME COUNTRIES THE GENERAL AGENCY AND SOLE SELLING RIGHTS ARE AVAILABLE
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SUPERFINE
TOILET CREAMS
OF SUPREME DISTINCTION ARE

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Registered Trade Mark

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 { HOP 2423
 { HOP 2424
Telegrams: USHENSPUNA, LONDON

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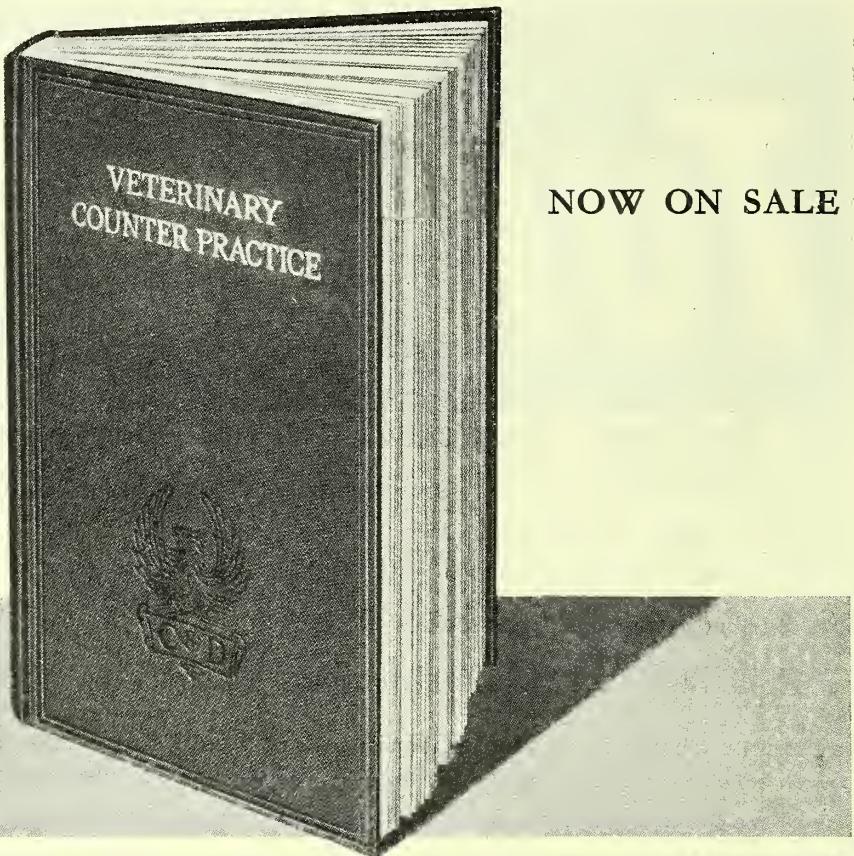
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PERFECT
BABY CREAM

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OR
BULK

WRITE FOR
PRICES AND
SAMPLES

NEW EDITION

NOW ON SALE



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Completely re-written, enlarged, revised, re-illustrated and brought up-to-date in every detail. Compiled by a practising veterinary surgeon for the use of Pharmacists

This book contains information of practical value to every Chemist, whether in Town or Country. Farmers, Stockbreeders and Householders—all are potential customers for veterinary remedies. This book supplies the information you require in concise and accurate form.

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Please send me, post free, a copy of
"VETERINARY COUNTER PRACTICE"
for which I enclose remittance value 10/6.

ORDER

Name	Date
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THE CHEMIST & DRUGGIST

28 ESSEX STREET, STRAND, LONDON, W.C.2

VCP 3



The
OXYGEN
Tooth
Powder

Manufactured in
 England

NEW RETAIL PRICES

1/- and 2/-

CALOX is coming into the Public eye with an advertising campaign which will send up the sales of the Calox Oxygen Tooth Powder to unprecedented levels Carefully chosen media giving country-wide coverage will carry the Calox message throughout the coming year. Special terms and helpful sales advertisements will give Calox the flying start. Study the terms and see for yourself. **SPECIAL BONUS** terms for Window or Counter Display, 1/2th free with each complete dozen of either size on guaranteeing to display our striking new pack on a very attractive convenient size display stand. Will be an asset on any retailers counter.

TRADE TERMS FOR CALOX

HANDY SIZE 8/- Dozen Retails @ 1/- P.A.T.A.

FAMILY SIZE 16/- , , , , , 2/- , , , , ,

3 DOZEN LOTS LESS 2½% 6 DOZEN LOTS LESS 5%

3 DOZ. LOTS	£ s. d.	Retail @ 1/-	£ 1 16 0
Handy size @ 8/- per doz.	1 4 0	Bonus of 3 Tins	3 0
Less 2½%	7		£1 19 0
	£1 3 5	Profit . . . 15/7 is 40% on selling price	
Family size @ 16/-	£2 8 0	Retail @ 2/-	£3 12 0
Less 2½%	1 2 .	Bonus of 3 Tins	6 0
	£2 6 10	Profit . . . £1 11 2 is 40% on selling price	£3 18 0

Displays available on application to us, or through your wholesaler

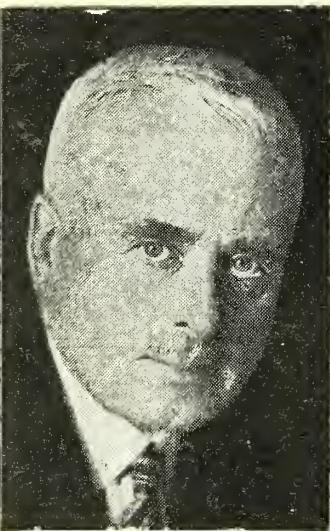
★ **SHAVAMI** is another splendid line—a Brushless Shaving Cream which is gaining popularity on its merits.

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ASSOCIATED WITH MCKESSON & ROBBINS INC., BRIDGEPORT, CONN., U.S.A.
 "EAGLE HOUSE," 90-96 CANNON ST., LONDON, E.C.4

Phone:
 MANSION HOUSE
 1751/2

'Grams:
 MACKESSON,
 CANNON, LONDON



WILFRID HILL, Managing Director,
The County Perfumery Company

Wilfrid Hill says

TRADE MESSAGE No. 3

In my last week's message I discussed our policy with regard to Distributors. I explained that as Brylcreem was introduced exclusively through Chemists and Hairdressers it was up to us to ensure so far as we could that only Chemists and Hairdressers enjoyed the retail profits of its success. And speaking of profits I have reason to know that our Trade terms are regarded as very generous. Actually our terms and discounts to-day are the same as they were when Brylcreem was introduced. That was before we advertised and before Brylcreem had achieved its dominant place in public favour. The terms and discounts which you considered generous enough when Brylcreem was unknown are still yours now that Brylcreem is continually establishing new records in sales and advertising expenditure.

• *That is why*
BRYLCREEM
ensures you full profits

The County Perfumery Co., North Circular Road, West Twyford, London, N.W.10



WANIE

The Blade for Every Razor!

Send for Samples to Dept. C.D.

**LONDON & PROVINCIAL
FACTORS, LTD.**

146 THEOBALDS ROAD, W.C.1
and at
16 WITHY GROVE, MANCHESTER

Enquiries from Irish Free State Invited.
Wholesalers are invited to apply for Trade Terms.



3'9

GROSS
BRITISH
BLADES

**WORLD'S HEADQUARTERS FOR
SPONGES**

INTERNATIONAL SPONGE IMPORTERS, LIMITED
CRESSWELL BROS. BRANCH,
18 and 19 Red Lion Square, LONDON, W.
CHEAPEST HOUSE for Sponges & Chamois Leathers
WRITE FOR ILLUSTRATED PRICE LIST.



**ROUGE, LIPSTICKS,
FACE POWDER, CREAMS**

Apply to your wholesaler
for prices, or direct to:
W. J. YVONNE et CIE LTD.
291 Derby Road, Bootle, Liverpool, 20



KHAACOSMETIC CO.,
26 Minories, London, E.C.3.
Telephone: Royal 1497.

**Khaa is a
profitable line**

Customers who buy Khaa invariably
come back for more. It is the only
face treatment that removes **ACNE**,
blotches, pimples, etc., and at the same
time **cleanses** and **beautifies** the
skin leaving it soft and velvety.

Khaa is a pure natural vegetable powder
from the Orient. It contains **NO
CHEMICALS** and will not harm the
most tender skin. Send for details.

KHAACOSMETIC CO. IS BEING NATION-
ALLY ADVERTISED IN THE DAILY MAIL, DAILY
SKETCH, DAILY MIRROR, etc.

Retail: One application 1/- Three
for 2/6. Trade: 8/- doz. and 20/-
doz. respectively.

The 1937 sales trend is

upward!



4 NEW RUNGS IN YOUR PROFIT LADDER from **PEPSODENT**

or scraping, leaving tooth surfaces spotlessly clean. It is absolutely **SAFE**. It contains no chalk, no grit, no soap, no pumice.

It is **SUPER SOFT**. We advertise the super softness of Pepsodent, its consequent safety to teeth, young and old alike.

● Increased Discount Terms

We have made Pepsodent easier to buy. We now allow a discount of 10% (and 2½% for 10 days cash) on all parcels of £1.10 and over: 12½% and 2½% on parcels of £3 and over: 15% and 2½% on parcels of £5 and over. Carriage paid. Parcels can be made up of Pepsodent Tooth Paste or Powder to make up the requisite quantity.

Wholesalers can offer retailers the same advantageous terms as if they were to buy direct.

● Bigger-than-Ever Advertising

Pepsodent advertising for 1937 will be on an even larger scale than before. It will send new customers to you for Pepsodent Tooth Paste and Powder. This advertising introduces the remarkable new Pepsodent ingredient IRIUM, which removes film from teeth without scouring

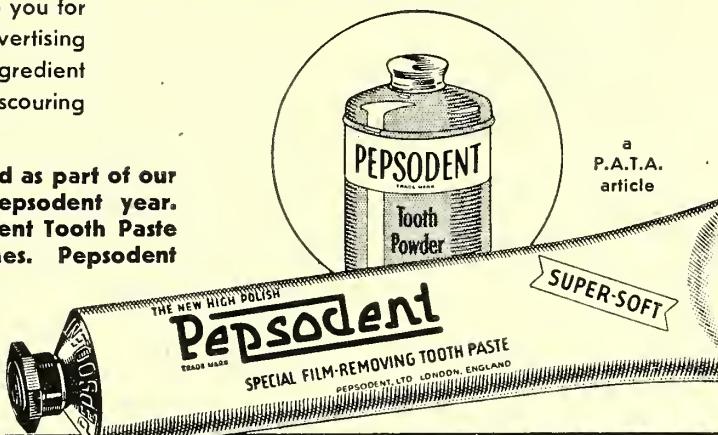
These measures have been introduced as part of our plan to make 1937 a "bumper" Pepsodent year. Our success is your success. Pepsodent Tooth Paste and Tooth Powder are quality lines. Pepsodent users are steady users. With their increased popularity due to the new "super soft" feature we — and you — can be certain of a steady growing demand.

● Personal Representatives

A force of trained men is ready to assist you in display and other problems connected with the merchandising of Pepsodent. "Ask the representative" when he calls.

● New Display Material

Attractive and striking window and counter displays are now ready; convenient to handle, easy to place . . . designed to tie in with the national advertising. Send for them *free* when placing your next order.



PEPSODENT, LTD. Park Royal Road, London, N.W.10. (Willesden 4871)

The only dentifrice with SELLING MESSAGE to

Window Bills

Arresting window bills
in full colour present
Forhans' powerful
"Two-way" appeal at
a glance



Press Advertising

CONSISTENT

FORHANS ADVERTISING

Striking advertisements featuring Forhans powerful double appeal are appearing every week in the Daily Mail, Daily Express, News Chronicle and Daily Telegraph; also, fortnightly in the Illustrated London News, Tatler and Bystander. Every month Forhans telling "two-way" story reaches thousands of homes through Good Housekeeping, Woman's Journal and Britannia & Eve. 23 million forceful Forhans advertisements every month help you to sell FORHANS.

Thousands see Forhans striking tube
cards every day of the week. This
card in five colours is a real
attention-getter.

Tube Cards



Counter Sell-outs

Forhans powerful new advertising message is effectively presented at point of sale by this eye-arresting counter basket. It sells Forhans for you

These full colour
cards, together with the
window bills and counter
display material, remind
customers of their need for a dentifrice
that cleans teeth and saves gums.

Show Cards

Forhans
Does both jobs
CLEANS TEETH
SAVES GUMS

This ingenious
cut-out display (of just the small size you like)
provides a realistic three-dimensional reproduction of
a hand presenting Forhans—another silent salesman to
bring you larger profits on dentifrice sales!

novelty carton holder

IT PAYS TO FEATURE FORHANS

a REAL

the public

FORHANS

ORIGINAL

DENTIFRICE FOR MASSAGING GUMS & CLEANING TEETH

BRAND

**CLEANS TEETH
SAVES GUMS**

FORHANS IS THE ORIGINAL dentifrice for massaging the gums and cleaning the teeth—perfected by one of the world's leading dental surgeons for this double protection.

"Two-way care: cleans teeth—saves gums" gives Forhans the most powerful advertising appeal of any dentifrice on the market to-day. It is new—different—*convincing*. It really *sells*!

From tube trains, national newspapers, magazines, chemists' windows and shop counters all over the country, Forhans' unique double appeal persistently reminds the public of the "Two-way protection" that Forhans alone can give. And every large size tube of Forhans passing over your counter means 10d. profit in your till!

Are you attracting your full share of this profitable business?

**5d
profit
ON 1/3 SIZE**

**10d
profit
ON 2/6 SIZE**

**THERE'S MORE
PROFIT NOW
FOR YOU IN
FORHANS**

33 $\frac{1}{3}$ % on all lines

The popular new 1/3 tube is winning thousands of new customers! **HOW'S YOUR STOCK?**
SOLE SELLING AGENTS: STEMCO LTD., 128 ALBERT STREET, CAMDEN TOWN, N.W.1



If, after reading this advertisement, you still think I am merely "telling the tale," go and buy your printing elsewhere and jolly good luck to you, but don't blame me if things don't work out as you would like them to do.

It seems a funny thing, and I daresay you will often have noticed it, that when people like you and ourselves want to say something about our own affairs we must speak very modestly about them. If we don't, the general tendency is to totally disregard our statements, so that any attempt to write with enthusiasm or honest pride is liable to be classed as nothing but a lot of 'eyewash.' Personally, I think this is due to the fact that there are so many silly and ridiculous claims being made in the business world to-day that people have come to automatically accept these things with the usual pinch of salt. This is a pity, of course, because there are so many products and services worthy of a certain amount of enthusiastic expression and your business and ours are at least two of them. I make no bones about that remark so far as we are concerned because I know you can readily prove the truth of my statement and the fact that we are addressing you is, I think, sufficient evidence of the value we place upon your own business. We could, of course, get one of those professional advertising experts to write these advertisements for us and tell you what wonderful fellows we are and what marvellous work we are doing. But it would only be an insult to your intelligence if we did, neither have we any desire to try and bamboozle you or anyone else with a lot of 'bilge.' We just want to do a jolly good job of work for you and give you of our best in price, quality and service. That's all.

for helpful printing see WAIDE'S

THOMAS WAIDE & SONS, TD. ★ PRINTERS AND LITHOGRAPHERS ★ KIRKSTALL HILL ★ LEEDS 5

A sensational New Lipstick by COTY



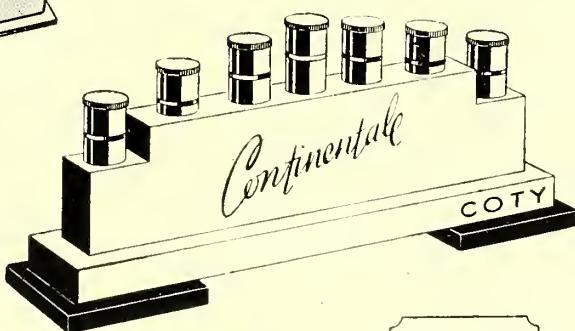
Free TEST STAND

Made of the finest grained wood, and holding one of each shade, this artistic Coty Test Stand is given free with an order for two dozen lipsticks. Displayed prominently on your counter it will sell . . . sell . . . and sell!

THE *Continental*

'CONTINENTALE' is a beautiful and practical round-shaped lipstick in a strikingly modern platinum-finish case. This is sure to prove one of the most popular lipstick models we have ever produced. There are seven modern shades, including TWO SPECIAL GLAMOROUS NEW COLOURS ("SATURNE" and "SIENA") which are bound to have an enormous appeal. Order now—and sell from the attractive ready-to-serve Counter Stand containing a dozen "CONTINENTALE" Lipsticks in assorted shades.

3/6
REFILLS . . . 1/6





Pictures are more eloquent than words in the psychology of selling and our "ready to use" library of photographs for Chemists' advertising is at your disposal. May we forward a selection on approval?

PHOTOGRAPHIC ADVERTISING LTD. "R" Dept.,
116 VICTORIA STREET, S.W.1.
Telephone: VIC 1991 (3 lines)

PHOTOGRAPHIC ADVERTISING LTD

MENE

I meets a big demand

For nearly half a century an unfailing demand has distinguished this famous towel. Unequalled for the quality of its texture, it solves the problem of personal hygiene for ever.

Mene ensures you a constant source of profit. Obtainable through all wholesale houses.

ROBINSON & SONS LTD.
CHESTERFIELD & 168 OLD STREET, LONDON, E.C.1

Southalls SANTOWELS

The "ORIGINAL" and most popular. The "CELTEx" soluble, easily disposed of. The "K" made entirely of absorbent cotton wool, with very soft cover. The "COMPRESSED" for travelling. A very popular line.

SOUTHALLS (BIRMINGHAM) LTD.

The Christian Herald

6, TUDOR STREET, LONDON, E.C.4
TEL: CENTRAL 5559

★ Some famous national advertisers who have used the *Christian Herald* for over a generation.

Your introduction
into 250,000 prosperous homes

These represent more than a *million* readers, serious-minded and conscientious, with money to spend on what they want—and when they want it.

Here is a solid profitable market for your goods. Many advertisers have proved this, and their confidence is shown by the fact that the great bulk of them have kept in the *Christian Herald* year in, year out, without a break for over 50 years—keying every advertisement.

Easily the most powerful paper in the religious field, the *Christian Herald* works out at 7/9 per page per 1,000. This will take some beating as a profit producer for advertisers.

★ CADBURY, BOVRIL,
JOHN NOBLE, FOSTER CLARK,
BORWICKS BAKING POWDER,
ROWNTREES, PHOSFERINE,
H. SAMUEL LTD.

Why not consider us at once for your forthcoming advertising? Send now for specimen copy and advertisement rate card to Dept. C.D.1.

CHRISTIAN HERALD

the paper that is read and handed on

6, TUDOR STREET, LONDON, E.C.4 Telephone CENTRAL 5559

CONTRACEPTIVES

We have been supplying Contraceptives of all kinds now for over 30 years and our well-known *Safeguard* & *Empire* Brands are still as popular as ever. THESE FACTS SPEAK FOR THEMSELVES and prove the confidence we have secured which is the fundamental principle in selling these goods.

All our Brands are guaranteed to be of the finest manufacture.

Write for complete Price List and Samples.

BURGE, WARREN & RIDGLEY, Ltd.
91-92 Great Saffron Hill, London, E.C.1

SPONGES of all descriptions

ON SHOW AT

ABERDEEN Douglas Hotel, 8th—10th March
DUNDEE Mathers Hotel, 11th—13th March

HYDRA SPONGE LTD. 129 Finsbury Pvt., London

GUARANTEED CLINICAL THERMOMETERS

● Powell's Clinical Thermometers are backed by their 25 year reputation, and are fully guaranteed by us. ● There is a range and packing to suit every requirement. ● Showcards and showcases are supplied with pleasure. ● May we send you a copy of our latest list?

POWELL'S THERMOMETER CO.,
55 Hatton Garden - - - LONDON, E.C.1
Telephone: Holborn 1185

GARDINERS for OVERALLS



*Reliable materials
well tailored*

Long Coats (as illustrated)
White Drill 7/6, 12/6
Khaki 5/11, 9/6 Grey 7/6, 11/6
Black 14/6

Short Jackets

White Drill 4/6, 7/11
Grey 6/11 Black Poplin 12/6

Ladies' Long White Coats
With belt 7/11, 10/6
"Crossover" style 5/11, 7/11

Mail Orders: state chest measure

We have a fine range of Aprons in White Drill, Green Baize, Black and Yellow Oilskin, Acid-proof Black Rubber, also Clogs, Rubber Boots, Acid-proof Clothing, etc.

Write or phone BISHOPSGATE 6751 for illustrated Price List

GARDINER & CO., (SCOTCH HOUSE) LTD.,
1, 3 & 5, COMMERCIAL RD., LONDON, E.1
PHONE: BISHOPSGATE 6751

Prentif

THE NAME BEHIND THE APPROVED
CONTRACEPTIVE PRODUCTS

"Prentif" Non-greasy Galatine Suppositories and the smaller "Prensols"—the approved chemical contraceptives for use with any mechanical appliance. Maximum spermicidal power, accurate melting point and many other improvements make these Suppositories the best obtainable. Very generous Trade Terms.



Particulars, Prices & Samples from:

PRENTIF LIMITED

Long's Court, St. Martin's St., London, W.C.2
Telephone: WHitehall 9270

SOLE AGENTS IN GREAT BRITAIN FOR HOLLAND-RANTOS CO. INC., NEW YORK, manufacturers of "Koromex" Products.

Supplied for retail sale only to Chemists and Druggists at Chemists' Wholesale Houses

TO
**17 MILLION READERS
MONTHLY** THROUGHOUT THE SEASON

New National Advertising FOR A PROVED SELLING LINE

Starting this month-profitable business for YOU

Here's too valuable an opportunity to miss! Already an established selling line, Acorn Foot Paste will now be consistently advertised all over the country through important national newspapers. Well-planned advertisements making a strong appeal to every potential customer will go into the homes of 17 million readers every month! Profitable new sales are certain. Make sure you get your full share of this business.

SEE THAT YOUR STOCKS ARE READY — NOW!

Acorn Foot Paste offers a wide margin of profit. It is easy to handle—packed in hygienic tins. And 100% pure, 100% safe. Attractive counter display cartons supplied free. To facilitate early delivery, please order NOW from your wholesaler.

CONSISTENTLY ADVERTISED
EVERY MONTH ALL OVER
THE COUNTRY—THROUGH
"The News of the World"
"The Daily Herald"
"The News Chronicle"
"Everybody's Weekly"



ACORN

FOOT
PASTE

Sells
at
4
A TIN

Sole Manufacturers :
GALLOPS, 115 EARL'S COURT ROAD,
LONDON, S.W.5

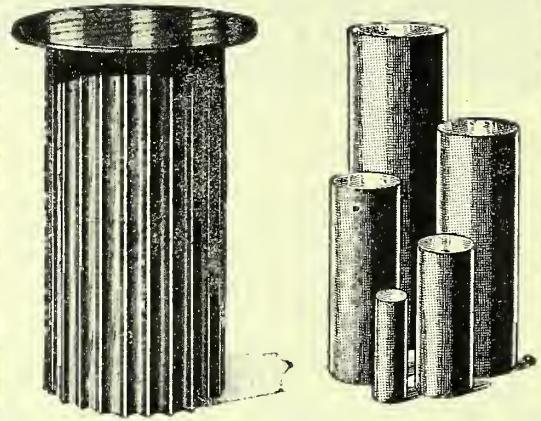


Designers & Makers
of
Quality Glassware
for
Perfumery.

ESTABLISHED 1828

**WOOD BROS. GLASS CO.
 LIMITED**
 BARNESLEY ENGLAND

**SEND FOR OUR NEW SPRING LIST
 of DISPLAY FITTINGS, No. CD 1742**



No. CDF 5771 Very attractive
Display Tables, constructed
 of compressed millboard and
 covered imitation Walnut Paper.
 The pillar has concave flutes and
 is extremely modern in appear-
 ance.
 Each
 9 ins. high with 10 in. top 4/6
 15 ins. high with 10 in. top 5/-
 24 ins. high with 12 in. top 6/9

No. CDF 5758 Useful and
 Attractive **Set of Display
 Cylinders**, covered heavy
 grained Gilt paper. Comprising
 1—36 ins. high x 12 ins. wide
 1—30 ins. high x 10 ins. wide
 1—24 ins. high x 8 ins. wide
 1—18 ins. high x 6 ins. wide
 1—12 ins. high x 4 ins. wide
22/6 the set

DUDLEY & COMPANY, LTD.
451, HOLLOWAY ROAD, LONDON, N.7
 City Showrooms—65 Fore Street, E.C.2



33 BROOKE ST., LONDON, E.C.1 Tel. Holborn 5090

**TAPERED, PYRAMID, DOMED AND
 FLANGE CORKS
 COMPOSITION AND BAKELITE
 STOPPERS**

THE MOST COMPETITIVE MANUFACTURERS IN
 THIS COUNTRY

MUNDET CORK PRODUCTS, LTD.
 12/18 ABBEY ST., TOWER BRIDGE ROAD, S.E.1

Telegrams:
 MUNDETCOMP, BERM, LONDON

Telephone:
 HOP 8043-4-5

MAKING THINGS EASIER

WIDE practical experience lies behind the advice and assistance which the National Savings Committee is able to offer to employers who wish to introduce a sound but simple savings scheme for the benefit of their employees.

SUCH a scheme makes it easier for employees to provide for the needs of both the near and the distant future, including retirement. Thousands of firms have introduced one or another of the National Savings ways of saving with memberships ranging from 5 to 5000 and over.

THE National Savings Committee will always be pleased to arrange for one of its representatives to visit a firm with a view to ascertaining on the spot what are the particular requirements, and to suggest ways of meeting them. Concrete schemes, based on data provided by individual firms, can be submitted.

EVERY assistance will be given in starting the scheme, including the provision of a speaker to address employees, and the preparation of a special circular letter for distribution. Membership cards, books, etc. are supplied free.

Please write to the

NATIONAL SAVINGS COMMITTEE (Dept.T.I.A.) • **LONDON • S.W.1**

No postage stamp required

JACKSON-CROCKATT
PATENT
PACKING MACHINES
FOR ALL POWDER MATERIALS
Various types for Powders and Plastics



"JUNIOR 45" PACKING MACHINE
with washable stainless steel hopper.
Quickly dismantled for cleaning.

For Packing—To uniform density, Face Powder, Toilet Powder, Maclean's Powder, Magnesia, Curry Powder, etc.

Self-Contained Motor Drive

J. G. JACKSON & CROCKATT Ltd.
Engineers, DARNLEY STREET, GLASGOW, S.1

**FINE POWDERS MAKE
FINE PROFITS**

The finer the powder the bigger the margin you can allow for profit. Powders of the finest, smoothest texture can be produced at low cost and in any variety, from infant foods to beauty powders, if you instal the

GARDNER'S
PATENT
"QUICK CHANGE"
FINE POWDER DRESSER



WM. GARDNER & SONS (Glos.) LTD., Bristol Rd., Gloucester
Telephone : 2288 Telegrams : "Gardner, Gloucester."
London : 19 Gray's Inn Chambers, 20 High Holborn, W.C.1
Telephone : Chancery 7347

Armstrong's
TAPER  CORKS

ARMSTRONG CORK CO. LTD.,
ALDWYCH HOUSE, LONDON, W.C.2.
HOLBORN 9884/7 and HOLBORN 7503/5

PHARMACEUTICAL MACHINERY
OF ALL KINDS

Pill and Tablet Machines; Compact Powder Presses (hand); Suppository and Lipstick Moulds of all kinds; Sifters and Mixers; Tincture Presses, Percolators, End Runner Mills, Ball Mills, Emulsifiers, etc.

J. W. PINDAR & CO.,
DRAKEFELL RD., ENDWELL RD., BROCKLEY, LONDON, S.E.4

OPTICAL TUITION

FOR THE

S.M.C., B.O.A. and N.A.O. DIPLOMA Examinations

Particulars :—

C. A. SCURR, F.S.M.C., F.B.O.A., F.N.A.O., F.I.O., F.C.O., M.P.S.
50 HIGH STREET, BARNET, LONDON, N.

EMPIRE **ELECTRIC
POWER EMULSIFIERS**

PRICE £27 : 10 : 0 WITH
ANODISED ALUMINIUM BOWL

PRICE £30 : 0 : 0 WITH
STAINLESS STEEL BOWL

Motors to suit customers' mains supply. Non choke adjustable pressure up to 3,000 lbs. per square inch. Bowl 1 gallon capacity. Output up to 15 gallons per hour.

BRITISH EMULSIFIERS LTD., TEDDINGTON

Molesey 1202



SURE Demand GOOD Profits

There is always a good demand for Sherley's Dog and Cat Foods and Medicines. They are extensively advertised, and

Trade Terms are generous with special extra discounts of 2½% discount on £2 parcels plus a further 5% for window display. Excellent range of Show Material supplied Free.

*See you hold ample stocks of Sherley's
Tonic & Condition Powders
Worm Capsules & Powders
Canker Lotion & Powder
Cough Tablets — Fit Tablets
Skincure — Insect Powder
Formalin Soap — Shampoo
Lactol and Lactol Biscuits, etc.*

A postcard brings full particulars.

You can stock and recommend **SHERLEY PRODUCTS** with confidence because they are prepared by **FULLY QUALIFIED ANALYTICAL and PHARMACEUTICAL CHEMISTS** under expert **VETERINARY SUPERVISION**

A. F. SHERLEY AND CO., LTD.
18 Marshalsea Road,
London, S.E.1.

SHERLEY'S DOG & CAT FOODS and MEDICINES

Whole Army wiped out in 3 days!



READ THIS

STRIKING TESTIMONIAL

A customer writes: "Close by my Rabbitry these monsters of danger and destruction (Rats) were launching their 'army of occupation.' Knowing the strength of my loyal ally Rodine, I declared war and launched my 'counter attack.' My war proved devastating and decisive. In three days the Rodent Red Army lay stricken and completely wiped out."

In tins 7½d. and 1/3.



THERE IS NOW ALSO
RODINE RED SQUILL—the safe raticide. Harmless to human beings, pets and poultry. Retails at 7½d. and 1/3.

RODINE
kills
RATS & MICE

Rodine Phosphorus and Rodine Red Squill are manufactured by

THOMAS HARLEY LTD.
PERTH,
SCOTLAND

Why
CATALINE Pays to Stock

BECAUSE it enjoys the largest sale of any Cattle Medicine Preparation and is on the P.A.T.A.

BECAUSE it is consistently advertised and all advertisements refer to the Chemist as the source of supply.

BECAUSE it is well packed, does what it is advertised to do, and shows the trade a satisfactory profit.

BECAUSE we do not employ travellers to call on Farmers or solicit orders at cattle fairs or markets.

One size, retailed at face value, viz.: 3/9 per bott.

Cash with order terms:

1 doz. 36/-, 3 doz. at 35/6, 6 doz. at 35/-, 12 doz. at 34/6 per doz.
CARR. PAID. CASES FREE.

Stocked by most Wholesale Houses.
THE CATALINE CO., LTD., Bristol

Glass Bottles for TOILET & PERFUMERY

Distinctive Bottles
Promote Sales

Pendred & Heim, 40 Trinity Sq., E.C.3

TELEPHONE: ROYAL 3659-4042

A NEW, BETTER, READY-PACKED HOSPITAL SHEETING



LATEX
HOSPITAL SHEETING

The "Mar-Vel" Latex Proofed Hospital Sheet is the product of modern science. It eliminates the disadvantages of the Vulcanised Rubber Sheet. It is Chili-Proof, Damp-proof, resists Acids or Alkalies, and its matt surface prevents sheets and blankets from slipping.

By the roll or packed in handy cartons ready to hand over, or in special sizes to fit the same as vulcanised rubber.

Obtainable from usual wholesaler.

WATERPROOF ~ CHILL-PROOF

Other items in the
"Mar-Vel" Range:
"MAR-VEL" BANDAGES
(Real Elastic Crepe)
"MAR-VEL" GLOVES
(Flexible Poplin)
"MAR-VEL" BODY BELTS

L.T.X. LIMITED, Star Works, Railway Street, SOUTHPORT.

Ah.. Veloshave!

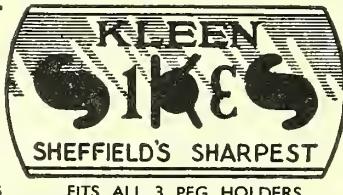
THE LUXURY BRUSHLESS
SHAVING CREAM 6d. • 1/-

RENÉ COS LTD., 9 QUEEN VICTORIA ST., LONDON, E.C.4

RIGHT ABOUT
FACE!

6 for 6d.

W. R. SWANN & CO.
LTD.
PENN WORKS, SHEFFIELD 6



TABLETS, PILLS, LOZENGES

We are manufacturers for the Wholesale Trade.
If you buy large or regular quantities, please write
for quotations.

BROOK, PARKER & CO. Ltd., BRADFORD

URICURE TABLETS

REGD.

The Greatest of all Rheumatic remedies
A LINE THAT ONLY CHEMISTS CAN SELL
1/3 size, 7/-; 3/4 size, 17/6; 5/4 size, 25/- per doz.
The Acton Pill & Tablet Co. Ltd., Ash Vale, Surrey

"VITAMIN TESTED YEAST"

Yeast specially prepared for medicinal purposes
GUARANTEED ABSOLUTELY PURE

MIDGLEY & PARKINSON, LTD.
Warren Works, Pudsey, LEEDS

IT
PAYS
TO
PUSH

DR SINGHA
ASTHMA
TABLETS

Eau de Cologne . . . Lavender Water
ALL TOILET PREPARATIONS

Low, Son & Haydon, Limited

5 GT. QUEEN ST., LONDON, W.C.2

TELEPHONE: HOLBORN 4007

EST. 1790

COURT
PERFUMERS



GARFIELD TEA FOR CONSTIPATION

Order from your Wholesaler

GARFIELD TEA CO. 44 Foxbourne Road,
BALHAM, LONDON, S.W.17

ALL CHEMISTS SHOULD STOCK

ABDINE

THE GOLD MEDAL HEALTH DRINK. Quick Seller. Big Profits.
Over 60 years' Reputation. "Abdine" is obtainable from the Wholesale
Houses. Attractive Display Material constantly available.

DUNCAN McGlashan LTD., ABOINE WORKS, WESTFIELD RD., EDINBURGH

IONIZED IODINE

(MOLSON BRAND)

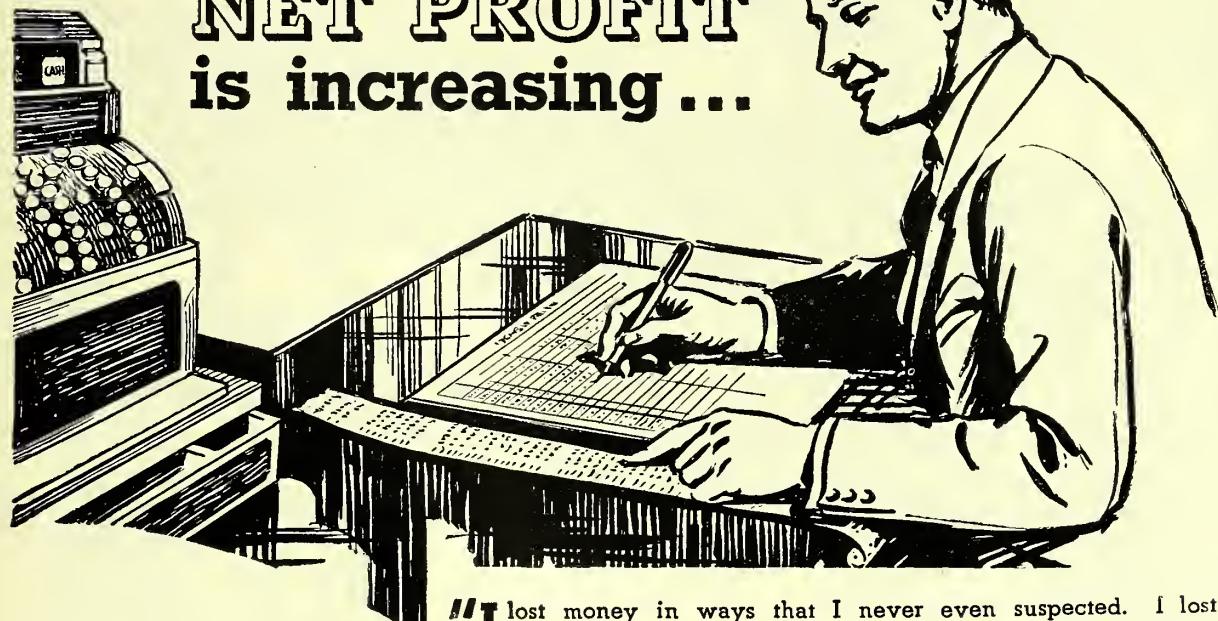
Obtainable from the usual wholesalers or the makers

MOLSON IONIZED IODINE CO. Ltd.
34 C, GABRIEL'S HILL, MAIDSTONE



The Perfect Powder for cleaning Dental Plates
THOS. CHRISTY & CO. LTD., Old Swan Lane, E.C.4
Will send Samples and Showcards upon request.

"No wonder my NET PROFIT is increasing ...



"I lost money in ways that I never even suspected. I lost customers too because of disputes about prices charged, change, and goods going out on credit.

"I lost sleep because no matter how much time I spent over the books I never seemed to be able to get an accurate idea of how my business was shaping.

"But NOW—what a difference! At any moment I know exactly where I stand with every phase of my business. Whenever I desire, I can have printed all the essential facts of the day's business—cash, credit, money received on account and money paid out—everything—all dissected and totalled. All I have to do is press a few keys on my National Cash Register.

"And here on this roll every transaction that has occurred is printed. No more forgetting to charge up credit sales: no more losing customers through disputes about prices and change: no more mistakes in adding prices—the register does the adding for us now!

"I'm only sorry I didn't have a 'National' years ago. I must have lost the price of this machine many times over."

Above are indicated *SOME* of the reasons why National Cash Registers appear in more and more shops every week. If you have not ascertained just what a modern 'National' can do for **YOUR** business, you don't know what you may be missing. Remember—what you decide to do **NOW** will effect your net profit, at least for this year: perhaps for ever. The halfpenny it costs to post off the coupon here may well prove the best investment you ever made. Do it **NOW**!

The National Cash Register Company, Ltd.
206-216 MARYLEBONE ROAD, LONDON, N.W.1



To the
N.C.R. Co. Ltd.

I should like to have
full details about modern
"Nationals" for Chemists.

Name.....
Address

C.D.

WHY YOU SHOULD

Specify **SOL-VIT-AX** BRAND
COD LIVER OIL



- ★ SOL-VIT-AX is Cod Liver Oil in its purest and most palatable form.
- ★ It has the important **sales advantage** of being entirely free from the unpleasant taste and smell associated with the old type cod liver oil.
- ★ SOL-VIT-AX is guaranteed specifically to have a Vitamin potency **considerably** higher than the B.P. standard.
- ★ You can rely on SOL-VIT-AX—it is **British and best**.
- ★ Always order SOL-VIT-AX Brand. Specify it in your emulsion and in your malt and oil.

SOL-VIT-AX BRAND MEDICINAL COD LIVER OIL

BRITISH COD LIVER OIL PRODUCERS (HULL) LTD.

Grams: "Vitamins, Hull"

St. Andrew's Dock, Hull, England

Phone: Hull 37759

EYETEX

REG. TRADE MARK

SUN GOGGLES



No. 302. Dark mottled Rims, metal fittings, FITOVER Spectacles, glazed with foreign Crookes Lenses, two tints

No. 702. Light mottled imshell FITOVER Spectacles, glazed smoke and Fieuza

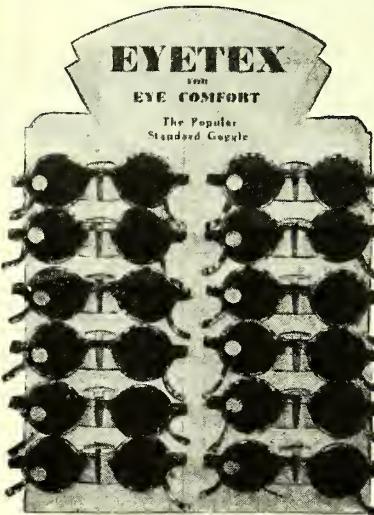
SUPPLIED
CARDED HANGING/
STRUT

SUPPLIED PACKED
IN CARTONS



No. 308. "Silvanic" engraved, FITOVER Spectacles, supplied in cable or spring, 38, 40 and 42 mm. eye glazed with foreign Crookes Lenses

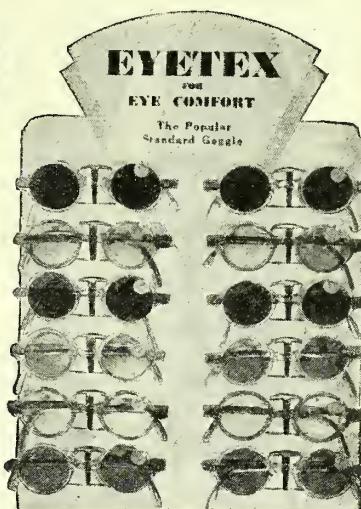
No. 310. Do. do. Chance's do. Supplied complete in purses Attractive Show-card supplied for display purposes. As illustrated



No. 0357. Light mottled, imshell unbreakable, metal hinge, 42 mm eye, glazed foreign Crookes Lenses, assorted tints

No. 0358. Do. do. glazed amber tint Lenses

No. 0826. Light mottled, imshell unbreakable, pin joint 45 mm eye, glazed assorted smoke and Fieuza. Carded hanging/strut. Packed in cartons



No. 3284. Beach Goggle for sun-bathing, assorted non-inflammable flesh, blue, pink crystal, glazed Chance's Crookes coquille Lenses in all tints. Supplied in assorted measurements in 38 and 40 mm eye

No. 4267. Beach Goggle for sun-bathing, cheaper type with metal hinges in six assorted colours, 42 mm eye, glazed foreign Crookes Lenses

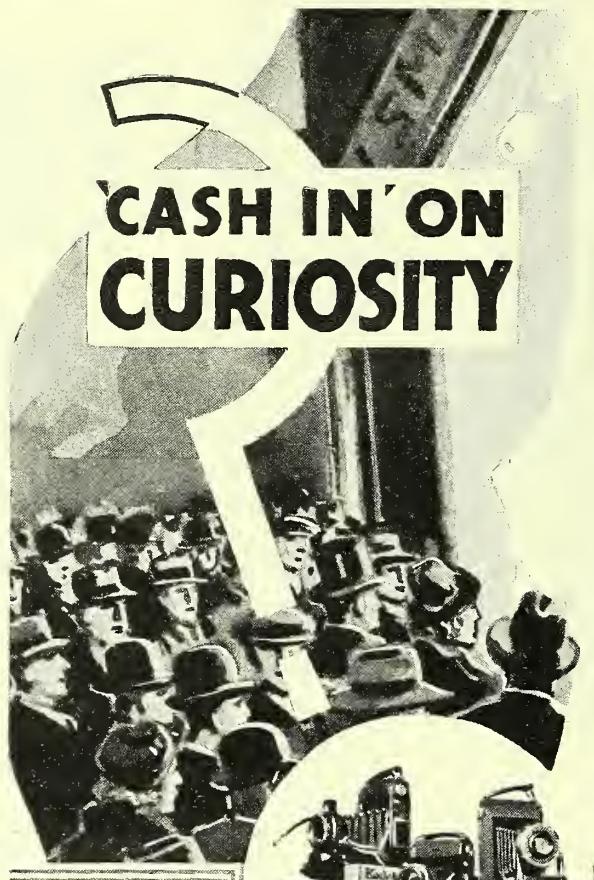
A VERY ATTRACTIVE LINE

No. 7690. Children's Goggle, assorted colours. Carded hanging/strut. Packed in cartons

ILLUSTRATED PRICE
LIST ON APPLICATION

OBtainable from LEADING WHOLESALE HOUSES
Wholesale and Export Trade only

MERX OPTICAL COMPANY LIMITED
NEW HOUSE - 67-8 HATTON GARDEN - LONDON - E.C.1
TELEPHONE: HOLBORN 7071



WITH THE
ONLY
PORTABLE
ELECTRIC
TURNTABLE
IN THE WORLD

No Wires—No Plugs—No Mains

An Orel-Simplex Turntable provides a revolving base—invisible if desired—for featuring goods up to 5 lbs. in weight on trays up to 36 ins. diameter. Operated by any standard flash-lamp battery at a power cost of 3d., each battery lasts up to eight weeks running day and night if required. Diameter 4 ins. Height 2½ ins. Price 30s. Put this modern magic in your window or on your counter—and watch results! A definite sales-stimulus for the holiday season.

TO NATIONAL ADVERTISERS

The Orel-Simplex can be fitted inside dummy packs with attention-compelling results.

Write for illustrated folder.

Orel-Micro Electric Ltd., 39/41 Berners St., London, W.I. Phone: MUSEum 0032 (2 lines)



OREL-SIMPLEX
ELECTRIC
TURNTABLE



A fine **NEW PACK**
to help you sell "**GENIC**!"

"FLYGOON"
Specially prepared to combat the nuisance of flies and flying pests of all kinds. "Flygon" is particularly suitable for use under tropical conditions. Discount 33½%. Retails at 6d. and 1/-.

Here comes "Genic," the safe, solid disinfectant, in smart new containers and ready for immediate sale. "Genic" users are regular buyers, for "Genic" continues to release a pleasant odour until the block has entirely disappeared. A steady sale is certain. Order from your regular wholesaler today. Milford Products Co. Ltd., Milford, Derbyshire

MILFORD PRODUCTS
for the Million

ORDER THROUGH YOUR REGULAR WHOLESALER



The famous "Town Talk" Liquid Silver Polish, Silver Plate Cloth, Liquid Pewter Polish, Chromium Plate Cloth, and Cut Glass Cloth, afford you five ways to a woman's purse. They are consistently advertised in women's newspapers and journals, and their qualities make them quick-selling, repeat-order lines.

Push the "Town Talk" 5, they yield a good profit and bring customers into your shop.

ORDER DIRECT OR FROM

MANCHESTER :
James Woolley Sons & Co., Ltd.

LONDON :
Brooks & Warburton, Ltd.
May, Roberts & Co., Ltd.

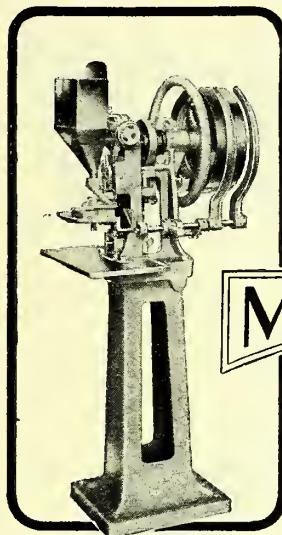
LEEDS :
Goodall, Backhouse & Co., Ltd.

LIVERPOOL :

Leicester :
E. H. Butler & Son.

Ayrton, Saunders & Co.
Ltd.

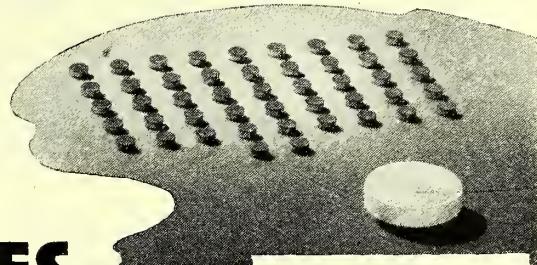
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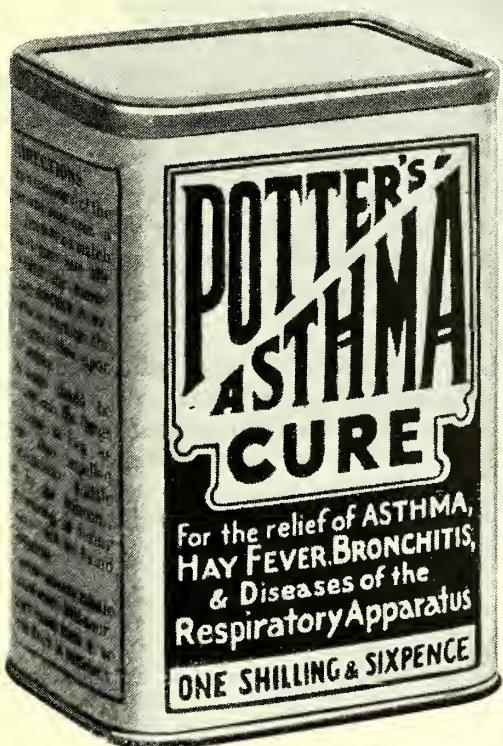
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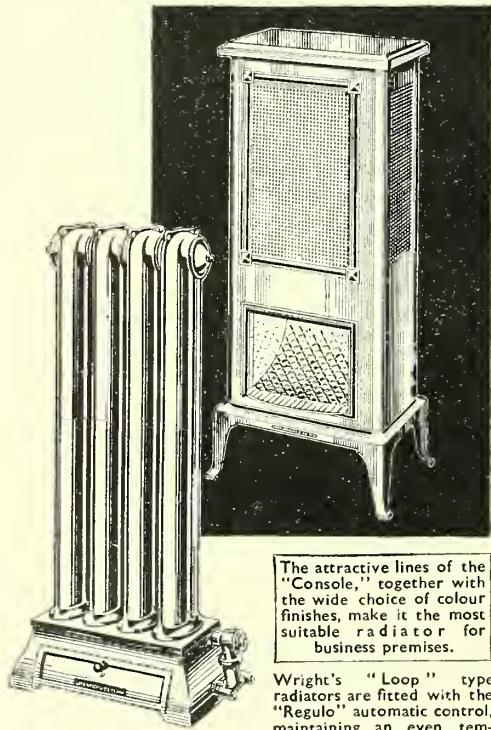
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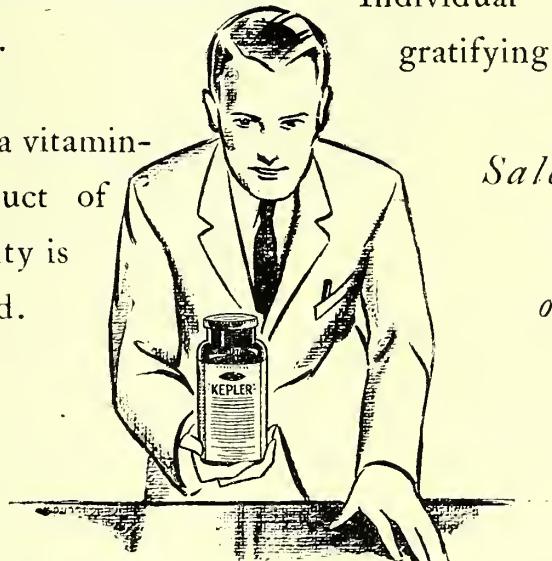
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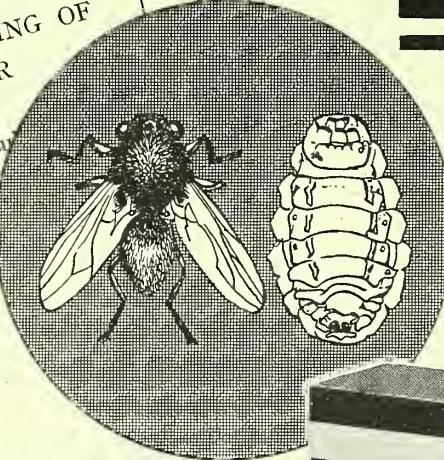
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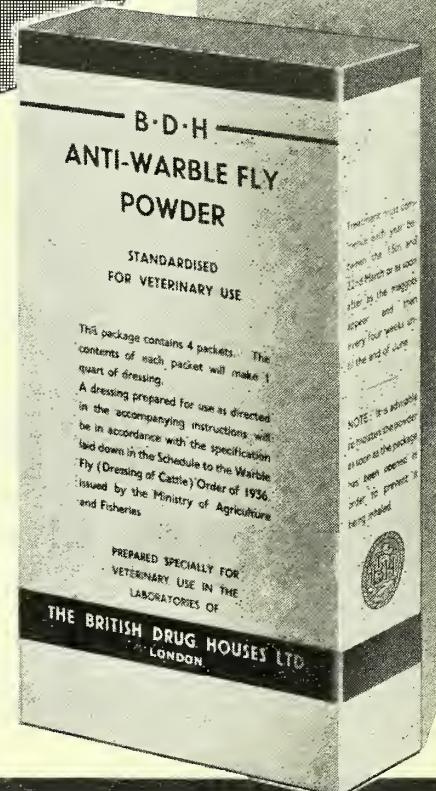


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VOL. 126. NO. 2978

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News of the Week

N.H.I. Amendment Bill

A Bill has been introduced into the House of Lords for the purpose of substituting the words "registered pharmacists or authorised sellers of poisons within the meaning of the Pharmacy and Poisons Act, 1933," for the words "entitled under the Pharmacy and Poisons Acts, 1852 to 1933, to use the title chemist and druggist" in Section 41 (2) of the National Health Insurance Act, 1936. The Bill is published (price 1d.) by H.M. Stationery Office.

Proprietary Articles Trade Association

We are advised of the following additions and alterations to the Protected List of the Proprietary Articles Trade Association, 43 Gordon Square, London, W.C.1:—

Additions.—Clay & Abraham, Ltd.—Ephedrol, minimum retail price 1s. 6d. 12s. dozen. Three dozen at 11s. dozen. Minimum one dozen, thirteen to dozen. Ephedrol, minimum retail price 3s. 23s. dozen. Three dozen at 22s. dozen. Minimum one dozen, thirteen to dozen. Ephedan, minimum retail price 2s. 6d. 20s. dozen. Bonus of three with minimum three dozen. **Alterations.**—Don S. Momand, Ltd.—Alka Seltzer Brand Tablets. Minimum retail price 1s., 9s. dozen. Minimum retail price 2s., 18s. dozen. 2½ per cent. by 10th of month following date of invoice. Display discount of 5 per cent. on order value £2 5s. Display discount of 7½ per cent. on order value £4 10s. British Alkaloids, Ltd.—T.C.P. 2½ per cent. for monthly settlement allowed to retailers ordering minimum £2 parcels.

Bournemouth

The annual dinner and dance of the Bournemouth and District Branch of the Pharmaceutical Society, held on February 24 in Bournemouth Pavilion, was marked by the presentation of a cheque to Mrs. V. J. Scampton so that she might purchase a suitable souvenir for her husband (branch secretary). Mr. W. A. Bingham (chairman), in making the presentation, recalled that in June of last year the Society held its conference at Bournemouth; its success was, he said, due, more than anything else, to the wonderful organisation of Mr. Scampton, ably assisted by his wife. Returning thanks, amid applause, Mr. Scampton observed that it was the spirit behind the gift that his wife and he most valued. Mr. Bingham proposed the toast of "The Pharmaceutical Society of Great Britain," saying that he had been a member for thirty-seven years, and had made a host of good friends. He exhorted younger members to take a bigger share in the work of the Society; and, harking back to the days when he opened as a pharmacist in Bournemouth, thirty-eight years ago, acknowledged the help he had received from Mr. F. E. Bilson, Mr. A. J. Worth and others, who did not regard him as an interloper, but helped with valuable advice. That occasion was, added Mr. Bingham, really a "silver jubilee" for him, for it was twenty-five years since he occupied the chair previously. On that night he had been supported by Mr. F. E. Bilson (who had been associated with the pharmaceutical profession in Bournemouth for half a century); Mr. Francis Rose (a veteran of forty years' standing); Mr. Arthur J. Worth (forty-four years), and others. Mr. H. N. Linstead (secretary and registrar of the Pharmaceutical Society), who replied, reverted to the

Bournemouth Conference, which, he said, was one of the happiest and best organised that he had attended. He hoped that Mr. Bingham's record would encourage younger pharmacists to come into the chair early, and return twenty-five years later. Miss Ruth Hardwick, toasting "The Visitors," had a special welcome for the Mayor and Mayoress of Bournemouth. The Mayor, in reply, congratulated the Society in having a lady member who could propose a toast so well. Mr. Scampton voiced an appeal to the Bournemouth pharmacists to support Mrs. Irvine in the coming Council election of the Society; and Mr. Peter Irvine (who gave an entertainment) thanked Mr. Scampton for his advocacy. The company included visitors from London and Southampton.

Bradford

At Bradford Police Court, on February 19, Harry Hinchcliffe was fined £25 for being concerned in the administration of phenobarbitone to racing dogs.

The annual dinner of the Bradford and District Branch of the Pharmaceutical Society was held at the Connaught Rooms on February 17. Mr. E. Robinson (chairman) presided, and among those present were Mr. J. C. Young (a member of Council of the Pharmaceutical Society), acting as deputy for the vice-president of the Society, who was prevented from attending by illness; the Lord Mayor and Lady Mayoress of Bradford; Mrs. E. Robinson; Dr. Robinson (pathologist, St. Luke's Hospital); Professor H. Richardson (principal, Bradford Technical College); Mrs. Robinson; Mr. S. G. Hemms (clerk to the Insurance Committee) and Mrs. Hemms; Mr. W. Eaddie (chairman of the Leeds and District Branch); Mr. N. Lander, Huddersfield; Mr. W. L. Kemp (chairman, Halifax Branch); and Mr. J. A. Sullivan. Professor Richardson proposed "The Pharmaceutical Society." He said one of the things in regard to pharmacy that impressed him year after year was the high quality of the work of the young men who were now coming into its practice. There had never been a better type. Mr. Young, replying, said that he much regretted the enforced absence of Mr. E. H. Simmons. He had been given to understand that there was a strong feeling among pharmacists that the retail side was not sufficiently represented on the Council. Perhaps it was not sufficiently well known that out of the twenty-four members of the council seventeen or eighteen were retail representatives. There were only 23,000 chemists on the Register, and it should be understood that a great many of those were not compelled to be members. It seemed to him that the classes other than retailers were certainly entitled to some representation. He said this though he was himself a retailer. He understood that they in that city were sufficiently interested in pharmacy to put up a candidate themselves to try to get on to the Council. If that were so he wished the candidate well. On the previous night he had had a great thrill in signing the Wembley agreement. That agreement represented an ideal that he had been trying to carry out in a half-hearted way for some time past, but now he had become pledged to it in its entirety. "The City and Trade of Bradford" was proposed by Mr. J. A. Sullivan, who referred to current local events in happy phrases. The Lord Mayor, responding, said that nobody realised more fully than he how important it was that the public should be satisfied of the competence of the men who were dispensing its prescriptions. He alluded briefly to matters of local interest. The toast "The Visitors" was honoured on the proposition of the chairman, who spoke briefly but humorously; Dr. Robinson replied. The dinner was followed by a dance.

Hanley

The annual dinner and dance of the North Staffordshire Branch of the Pharmaceutical Society was held at the Grand Hotel, Hanley, Stoke-on-Trent, on February 25. Mr. G. W. Sherwin (president), was in the chair, supported by the Lord Mayor and Lady Mayoress of Stoke-on-Trent (Alderman and Mrs. J. A. Dale); the Mayor and Mayoress of Newcastle-under-Lyme; Mr. Thomas Marns (president of the Pharmaceutical Society) and Mrs. Marns; Mrs. G. W. Sherwin; Mr. H. Moorby (vice-president) and Mrs. Moorby; Mr. W. F. Redfern (joint secretary) and Mrs. Redfern; Mr. T. G. Lawley (joint secretary) and Mrs. Lawley; and the Rev. Prebendary E. W. Bridgwood (chaplain of the branch). Mr. Eric E. Young (president, North Staffordshire Royal Infirmary), submitting the toast of "The Pharmaceutical Society," said as a medical man he did not think the general public appreciated the work that

had been done for the medical profession by pharmacists, especially in the treatment of diabetes and pernicious anaemia. Mr. Marns, responding, declared that the Society was endeavouring to bring men into the calling who would be of service to the public health of the nation. They wished pharmacy to take its proper place in the Army and Navy. They were also hoping to take their place in the defence of the realm in the projected plans for air-raid precautions; they were going to have men trained in gas detection. Mr. Marns congratulated the Branch on its record attendance, and extended the best wishes of the Society to the Lord Mayor of Stoke-on-Trent, a chemist. Mr. W. Stanier, proposing "The Guests," remarked that it was the first time in the history of the Society that they had had occasion to invite a member as a guest, and they were proud that Alderman and Mrs. Dale had been elected to such high office in the City of Stoke-on-Trent. The Lord Mayor, responding, said that of all the congratulations he had received on his election to the chief office of the City, none had pleased him more than that of his friends in the Society. With regard to the trade, the future had to be watched carefully, for the private chemist was gradually disappearing and the multiple shops were increasing. It was difficult to see what the ultimate result would be, but the private chemists and the wholesalers had the future of pharmacy in their hands. Mr. H. Moorby proposed "The Local Branch," responded to by the president. At the conclusion of the dinner Mr. T. Amson (immediate past-president) was invested by the president with a past-president's badge.

Liverpool

There was a large attendance at the annual dinner of the Liverpool Chemists' Association in the Adelphi Hotel, Liverpool, on February 24, when the distinguished guests included the Lord Mayor and Lady Mayoress of Liverpool; the president of the Pharmaceutical Society and Mrs. Marns; Mr. T. Edward Lescher, O.B.E., chairman of the British Pharmaceutical Conference and of the Liverpool Chamber of Commerce; and Professor Walter J. Dilling (Professor of Pharmacology, Liverpool University). Mr. G. L. Clubb (president of the Association), who was in the chair, proposed the toast of "The Pharmaceutical Society of Great Britain." He said that recently the Pharmacy and Poisons Act, 1933, had come into being, and the peculiar part about it to him was that the chemist was under an obligation to carry out a lot of rules and regulations, which meant that he should not only be a scientist but also an unpaid lawyer. It rather suggested to him that this particular aspect of it had not entered the heads of the creators of the Act. He did not want it to be thought that he was blaming the Society for this, because they were not the creators of the Act. Dealing with the suggestion that they should advertise, Mr. Clubb said he hoped that if pharmacists did decide to advertise they would choose their advertising agent with discretion. They all hoped Mr. Marns would be president when the Conference came to Liverpool. Referring to the new building in London, he remarked that they hoped no expense would be spared to make it a worthy headquarters of the Society. Mr. Marns, in response, said that in the course of a few years the Society would be celebrating its centenary, and during the whole of that time Liverpool had played a great part. It had provided them with a president, a member of Council, and a member of the Education Committee. It had also provided the National Pharmaceutical Union with a valuable member of the Executive. Liverpool had ever been to the fore in pharmacy, and he rejoiced that in this Coronation year they had invited the Conference to enjoy their hospitality once again. He knew they were going to have a number of their colleagues from the Dominions and from the Continent, and he was sure it would go down in history as a very memorable Conference. The new building was now in process of becoming a reality. They were hoping to do for those who followed them something comparable to that which the founders did for them. Referring to the Benevolent Fund, Mr. Marns thanked Liverpool for the wonderful part it had played in helping the Fund throughout the year, and hoped the same interest would be maintained in the future. In concluding, he referred to the Guildhall banquet of April 6. Councillor W. J. Tristram (member of the N.P.U. Executive) proposed the toast of "The City of Liverpool," to which the Lord Mayor responded.

"The British Pharmaceutical Conference" was proposed by Mr. John Rae, who said the Society had progressed, and much of that progress was due to the British Pharmaceutical Conference.

ence; the scientific papers which had been read at it could be said to be the cream of pharmaceutical research in this country. But there was another side of it, the social side. They in Liverpool had been honoured by the acceptance of the Conference to visit Liverpool in July, and they had been very specially honoured by the election of Mr. T. Edward Lescher as chairman of the Conference. Mr. Lescher, responding, said this was a very good year in which to hold the Conference in Liverpool. "I do not think you can have any idea, my Lord Mayor," he continued, "of the tradition which underlies this Conference. Tradition is not built up in a year or so. It can only be built up over a number of years." The Conference, Mr. Lescher added, had two objects, a scientific and a social one. One had to remember that the Conference existed primarily in order to give a stimulus to research workers to give the results of scientific research throughout the year. He had no doubt that at Liverpool this year they would probably exceed all records. Mr. W. E. Humphreys proposed "Our Guests." Professor Dilling, in response, said that it was some time since he had had the pleasure of addressing them, and some changes of which he thought the Society should be proud had taken place meanwhile. His endeavour, when talking to medical students at the University, had been to impress them with the fact of how tremendously they could be helped by a close and kindly association with pharmacists. He had had to tell them that their knowledge on matters pharmaceutical must necessarily be limited, that under points of difficulty about prescribing they should take pharmacists into their confidence, and that they would find them sympathetic and helpful. He thought that in the near future the Society would be able to lighten the examinations in regard to Latin, because the modern medical student was not generally a very good Latin scholar. Telegrams of good wishes were read, and Mr. F. A. Lawman proposed a vote of thanks to the chairman. Dancing and bridge followed.

London

The St. Vincent Association held a house dinner at "The Old Cheshire Cheese," Fleet Street, E.C.4, on February 26, attended by members representing the medical, pharmaceutical, chemical and allied industries, who supported the president (Mr. J. Macvie Hill, B.Sc.) in receiving Mr. Hector Hughes, K.C., and Dr. F. W. Crossley-Holland, J.P., barrister-at-law. After dinner these gentlemen jointly delivered an address on "Some Legal Aspects of Medical Representation," dealing with various angles of this question, thereby elucidating many knotty problems, and, at the same time, presenting many surprises. It was felt that the outcome of the dinner was an instructive and most enjoyable evening.

Several prominent members of the medical profession and of the wholesale and retail sections of the trade were present at the opening of an extension of premises at the Antigen Laboratories, 95 Great Portland Street, and 30-32 Langham Street, W.1, on February 25. In the new bacteriological laboratory, which is equipped with the latest apparatus, demonstrations were given of the technique employed in the manufacture of autogenous and stock vaccines. Micro-organisms were shown in microscopical demonstrations. Pharmacists showed particular interest in precision apparatus for weighing drops of blood and for the quantitative estimation of albumen in fluids. How any one of over 16,000 strains of micro-organisms stored in separate tubes could be found within thirty seconds was another striking demonstration. In the pharmaceutical laboratory, methods of manufacturing and packing the pharmaceutical preparations were demonstrated, and appreciation was shown of special methods adopted to ensure accuracy and sterility.

The staff of C. J. Hewlett & Son, Ltd., 35-42 Charlotte Street, E.C.2, held their thirty-fifth annual dinner and dance at the Abercorn Rooms, Bishopsgate, on February 27. About ninety members of the staff and friends were present, with Mr. E. J. Millard, F.S.C., in the chair, and Mr. Vivian C. Hewlett, F.C.S., in the vice-chair. After the loyal toast had been honoured, Mr. E. D. Allman, of the representatives, proposed that of "The Firm," in which he emphasised the esteem in which Messrs. Hewlett's products are held by the medical profession. The chairman, in his reply, referred to the progress that had been made during the past year both at home and abroad, and paid tribute to the loyalty and co-operation of the staff. Mr. Vivian C. Hewlett also replied and proposed the health of "The Committee," to which the secretary (Mr. A. J. Upton) made response. The speeches were interspersed with

musical and humorous items from Miss Gladys Crouch (soprano) and Messrs. Olivere and Wicks (B.B.C. entertainers), which were much appreciated. The rest of the evening was devoted to dancing.

About fifty members of the Western Pharmacists' Association visited the new laboratories and factory of Glaxo, Ltd., on February 25, when two coaches, thoughtfully provided by Messrs. Glaxo, collected the members at convenient points and conveyed them to Greenford. On arrival the party was welcomed by Mr. C. J. Jephcott, Mr. James, Miss Bell and others. The party first adjourned to the handsome conference room, where Mr. James gave a short address in explanation of the processes which his audience were to see in operation. The party was then divided into small units, and under the direction of capable guides was conducted over the factory. Particular interest was manifested in the bacteriological department in the manufacture of dissolved vaccines (in which Messrs. Glaxo specialise), the production of Vitamins A and D, the filling of ampoules by a unique machine—the only one of its kind in this country—which is capable of dealing with 18,000 ampoules a day without attention, and in the physiological laboratory, in which large numbers of Wistar albino rats were being reared. The visitors were particularly impressed by the hygienic conditions. After the tour, tea was served in the canteen. The keen appreciation of the members was expressed by Mr. P. D. Goodwin (president) supported by Mr. David T. Jones and Mrs. G. W. Evans, J.P. Mr. Jephcott replied on behalf of Messrs. Glaxo, and traced their remarkable growth during the past few years. Sympathetic reference was also made to the recent severe illness of the sales director, Mr. Hugo Wolff. The visit was unanimously voted one of the most enjoyable which the Association has organised.

A meeting of the National Association of Women Pharmacists was held on February 18, when Mr. Herbert Skinner (a member of the Pharmaceutical Society's Council) give an address on "The Poisons Regulations." The president (Mrs. Skinner) took the chair, and reminded the audience of the previous occasions on which Mr. Skinner had addressed them and how he had helped them in their fight for adequate salaries for women pharmacists. Mr. Skinner introduced the subject of experiences of the poisons laws and regulations by a brief summary of events leading to the new Act. One thing that had become clear from the new Rules was that education of the vendor was no longer the guiding principle but regulation and control under inspection. Another important thing for pharmacists was that regulations, exceptions and exemptions had already, within eighteen months, produced an amount of literature more abundant than all the previous extended lists of poisons. The Home Office had felt it necessary to issue explanations of their own regulations. One wondered why the Poisons Board had failed to appreciate that simplicity in the regulations was as important as lists, schedules, exemptions and explanations. The method of approach was to subdivide the subject. The political and public side would appear to be well left alone; quite enough had been said. The point of view of the practising pharmacist had been, to some extent, overlooked. The manufacturer, wholesaler and industrialist had had everything explained to them by the Home Office, so one would suppose they were satisfied. The retailer had to exercise greater caution under the present than under the old poisons law, as by registration and inspection he could be brought more directly under control. Others were left to be found out, if possible, should they step outside routine. The retailer deserved the sympathy of every other pharmacist because he stood more directly to be "shot at." Fortunately, the education of the pharmacist had some value in storage and distribution of poisons in institutional pharmacy. A great difficulty had always been in trade names, where the list lengthened daily. Another point arose when a poison was in the Poisons List, Part I, and was not mentioned in any subsequent schedule. The statutory regulations applied in any dilution. It would be necessary soon to make a standard pack in institutions suitable for the storage provided. Labelling had not proved difficult, and a simple "store in poisons cupboard" had proved satisfactory. Inspection was at present only compulsory on the retailer, and a few interesting points had arisen which doubtless would receive attention officially and plenty of publicity. The suggestions for the improvement of the regulations which Mr. Skinner made included the simplification of the whole and the bringing of the dangerous drugs under the same control. Questions were asked by Misses Harvey, Edmond, Fordyce,

Hodgkinson and Dennis Hayes. A vote of thanks was proposed by Mrs. Irvine, who also took the opportunity of thanking Mr. Skinner for the help and advice which he had given to the Association from the beginning when it was struggling to establish itself. She said it seemed to her a pity that poisons and pharmacy were so closely linked together in the mind of the public.

Manchester

The annual meeting of the Manchester, Salford and District Branch of the National Pharmaceutical Union was held at the Victoria Hotel on February 23. Mr. G. V. Tyler in the chair. The report of the executive was presented by the secretary (Mr. T. Miller), and was carried unanimously, a word of praise being added by an old member who through ill health had not been able to assist in the work which had been done. The treasurer's report and balance sheet, submitted by Mr. G. H. Haines, were considered satisfactory, although the treasurer said that more members should support the Branch and make it really representative. The report and balance sheet were approved, and the auditor (Mr. J. W. Bygott) was thanked for his services and was re-elected. The election of the executive resulted in the re-election of the former members:—Manchester, Messrs. Cronin, Dickson, Gee, Stabler, Steinman, Thorpe, Wood; Salford, Messrs. Kintish, R. O. Jones, J. E. Edwards, E. H. Simmons; County, Messrs. W. Edwards, T. Miller, Tyler, Scholes.

Mr. T. Miller introduced a discussion on the Shops (Sunday Trading Restriction) Act, 1936, as it affected chemists. He outlined the various points dealt with in a published circular. After considerable discussion the following resolution was proposed by Mr. J. Cleworth, seconded by Mr. D. Dickson, and carried unanimously: "That this meeting is of the opinion that district rotas should be set up in Manchester on Sundays." This matter was referred to the Pharmaceutical Committee to submit schemes to the Insurance Committee. Mr. G. H. Haines introduced a discussion on the question of obtaining a Closing Order for Manchester and the setting up of district rotas on Wednesday evenings. After a long and animated discussion the following resolution was adopted: "That the present voluntary scheme of closing on Wednesday afternoons be continued, and that efforts be made to introduce district rotas in all districts on Wednesday evenings." This was proposed by Mr. A. E. Thorpe and seconded by Mr. H. Steinman.

Oxford

The Oxford and District Branch of the Pharmaceutical Society held a successful dance at the Randolph Hotel on February 22. During the evening prizes were given for lucky numbers and spot dances, and there was an exhibition of modern ballroom dancing. Whilst the last dance was in progress a box containing Innoxa "Aids to Beauty" was given to each lady, and towards the close of the evening Mr. Ridge (S. Maw, Son & Sons, Ltd.) thanked members of the committee for the work they had done.

A joint meeting of the Oxford Branches of the Pharmaceutical Society and the National Pharmaceutical Union was held at Oxford recently, Mr. J. A. Deacon in the chair. Mr. W. S. Howells (a member of the Society's Council) addressed the meeting on "Topics of Vital Interest to Pharmacists." He explained the position which had arisen from the inquiry into medicine-stamp duty, and the effect which this would have

upon pharmacists in their businesses. He outlined the fundamental changes which the new Pharmacy and Poisons Act had brought about, gave a *résumé* of the Shops (Sunday Trading Restriction) Act, and explained the necessity for the new headquarters of the Pharmaceutical Society. Finally, he made a stirring appeal for support of the Benevolent Fund. A lively discussion ensued, in which Messrs. Barley, Hepworth, Francis and Axtell took part. A vote of thanks was proposed by Mr. Price.

Sheffield

At a recent meeting of the Sheffield Pharmacy Club, the members were addressed by Mr. C. H. Forster, of the St. John Ambulance Brigade, on the subject of air-raid precautions. Mr. Forster stated that in the event of air raids doctors would be at hospitals and chemists would be needed at first-aid posts. Their services in these positions would create confidence in the civil population. Speaking of the work expected of chemists, Mr. Forster said that the treatment of persons at first-aid posts was probably the most important, but the identification of gases and the decontamination of places would also come within their duties. Efforts are being made to arrange a course of instruction for chemists.

Thames Valley

The Thames Valley Pharmacists' Association, which claims some years' fame on account of the shortness of its toast list, held its annual dinner and dance at the Restaurant Frascati, London, W.1, on February 24, the president (Mr. F. G. Davis, New Malden) in the chair. Mr. and Mrs. Davis received the guests, among them being Mr. P. D. Goodwin (president, Western Pharmacists' Association), Mr. and Mrs. Mylroie, Mr. and Mrs. H. Berry, Mr. and Mrs. W. Chalmers, Mr. C. J. Palmer and Miss Palmer, Mr. and Mrs. W. S. Howells, Messrs. Harrison, Dewey, Tims, Slade and many others. As usual, the only toast was "The Thames Valley Association," coupled with the name of the chairman. This was capably given by Mr. H. Berry, who in a humorous and reminiscent speech referred to the many changes that had taken place in pharmacy during the last few years. Mr. Davis, he said, was a good example of the post-war pharmacist, and he was glad to see that generation taking part in pharmaceutical politics. The toast was received with musical honours. Mr. Davis, in reply, made special reference to the secretary (Mr. C. B. Harrison) and to Miss E. M. Robertson (social secretary). Dancing followed until midnight.

Miscellaneous

DANCE.—The annual ball and whist drive of the Birkenhead and Wirral Pharmacists' Association attracted nearly 250 guests. Among the guests were the Mayor and Mayoress, Mr. Peter Grant (president) and Councillor Mrs. Peter Grant. Mr. V. J. Younger was M.C. for the ballroom and Mr. J. T. Preston for whist. Mr. and Mrs. Frank Snow and Mr. and Mrs. C. H. Wright were in charge of the social arrangements.

NEW RESEARCH LABORATORIES.—Professor F. G. Donnan (professor of chemistry and director of the chemical laboratories, University College, London) opened the new laboratories at the Kingsway works of B. Laporte, Ltd., chemical manufacturers, Luton, on February 24. Alderman H. Arnold (chairman of the directors), presiding at a luncheon, gave a short account of the firm's history. The founder, Mr. Bernard Laporte, first commenced the production of hydrogen peroxide at Bradford. When the works were transferred to Luton it was decided to form it into a limited company. At that time the works covered about an eighth of an acre. The new laboratories have a floor area of 11,000 sq. ft., and comprise two analytical laboratories, one general and one process; laboratories for general, private, titanium, paint and pigment research, research on applications for products, including bleaching of textiles, and a process development (machinery) laboratory. There is also a physics laboratory, with dark room, library and records office and apparatus stores.



"WHO BEE AT MY ENO"? WAS THIS PARKING ACCIDENTAL?

Scottish Notes

Poisons Problems Discussed

A meeting of the Edinburgh and South-Eastern Scottish Branch of the Pharmaceutical Society was held in Crawford's Rooms, Edinburgh, on February 24, Mr. James B. Mitchell, the chairman, presiding. Messrs. W. A. Beattie and Eric Knott were appointed auditors. The chairman said the Branch had invited the British Pharmaceutical Conference to Edinburgh in 1938. The Committee had approached Dr. J. J. Blackie, and he had kindly consented to act as chairman of the Local Committee. He suggested that the meeting might authorise the Committee to take steps for the appointment of a General Committee and the various organisations required. This was agreed to.

The chairman then called upon Mr. James Jack, Ph.C., Arbroath, a member of the Society's Council, to speak on "Labels and the Labelling Regulations." In the discussion which followed, a question was raised as to whether All Fours should be supplied in a poison bottle. It was pointed out that if the dose was stated it need only be labelled "Caution" and not in a poison bottle. If no dose was stated it must be in a poison bottle. The same applied in the case of paregoric. Some printers put out a label "Ammonia, 33 per cent. NH₃" and also a label "Ammonia, 10 per cent. NH₃." These were dangerous. It would be better "Strong Solution of Ammonia, B.P." and "Weak Solution of Ammonia, B.P." Surprise was expressed that the B.P.C. gave the name "Salts of Lemon" as a synonym for potassium quadroxalate, although its use was condemned as dangerous. It was explained that the B.P.C. as a reference book contained all synonyms in common use. A question was raised as to "Hartshorn and Oil." As it contained ammonia it must be treated as a Part II poison and labelled accordingly. The fact that the ammonia was saponified with the oil raised ambiguity. It was explained that in the case of a medicine supplied and copied into the prescription book the prescription must be copied each time for a different person, but it may be dispensed for that person by merely entering in the prescription book a reference to the original number. They could not take advantage of the exemption by merely copying the prescription for the first person and giving a reference to the number when it was dispensed for other persons. In the case of supplying by a prescription copied it was not necessary to know the person in the case of a First Schedule poison. When luminal powders were sent by post the packet should be registered. On the motion of Mr. James Henry a cordial vote of thanks was awarded to Mr. Jack.

Brevities

A correspondent writes: "The brisk spell during the influenza epidemic has ended. Wholesalers and retailers alike are now experiencing a period of dull trade."

At the recent meeting of the committee for the Seventh Conference of Scottish Optical Practitioners, the appointment of the following office-bearers was confirmed:—Chairman, Mr. Hugh W. Thomas, F.B.O.A., M.P.S.; Vice-Chairman, Mr. E. H. Strang, F.B.O.A.; Secretary, Mr. S. W. Gerrie, F.S.M.C.; Treasurer, Mr. L. J. D. Martin, F.B.O.A. The Conference is to be held in Glasgow on June 1 and 2.

Mr. Harvey P. Arthur, chemist and druggist, 361 Victoria Road, Glasgow, S., has been appointed to the board of governors of the Royal Technical College, Glasgow. Mr. Arthur is a past-chairman of the Glasgow and South-Western Branch of the Pharmaceutical Society and a past-chairman of the North British Executive. He is at present chairman of the Glasgow Pharmaceutical Committee.

The Paisley and District Chemists' Association held its second annual whist drive and dance in the New Templar Halls, Paisley, on February 16. Whist prizes were won by Miss Cameron, Miss Barr, Mrs. D. Hamilton, Miss Walker, Miss Weir, Mrs. Fleming, Mrs. Davies, Junr., Messrs. McLauchlan, Robertson, Stanley, Boyd, McIvor and Stuart. Mr. and Mrs. Fleming won the novelty dance prize.

Edinburgh

The annual general meeting of the Edinburgh Royal Public Dispensary was held recently. The report showed that the number of new patients was 926, as against 868 in the previous year. The total number of patients treated was 4,314, compared with 3,845. Prescriptions dispensed increased from 3,989 to 4,591.

There was a large influx of new subscribers to the Edinburgh Public Medical Service during the influenza epidemic, and old subscribers experienced the full advantages of the Service. Doctors have found it necessary to put the subscription for a single person up to 6d. per week, and, where there are more than four persons covered for 1s. a week, 1d. per week extra for each additional person. These increases will not apply to present subscribers, but will come into force for subscribers joining the service after June 1. Office-bearers of the service recently met the public health committee of the Town Council. It is desired to bring the service into closer co-operation with the public health authority.

Representatives of thirty-three employers' organisations connected with retail distribution in Scotland, and including representatives of the Scottish Pharmaceutical Federation, met at the City Chambers, Edinburgh, on February 24, under the chairmanship of Mr. F. W. Leggett (permanent assistant secretary of the Ministry of Labour). Later in the day the representatives of Trade Unions concerned met separately. The regulation of wages and hours and the proposal of the Ministry to establish trade boards were under discussion. Agreement was reached that a conference should be called by the Ministry of Labour for April 8, at which the organisations could discuss jointly the proposals for the setting up of machinery for the regulation of wages and working conditions in the trades concerned.

Edinburgh pharmacy students have given their support to the formation of a new body, the Heriot-Watt Pharmacy Association, the inaugural meeting of which was held in Minto House, Edinburgh, on February 17. The objects of the Association are to promote social and academic intercourse among students of pharmacy; to further the interests of pharmacy students in pharmaceutical affairs; and to afford a means of reunion between present and past students of pharmacy in the Heriot-Watt College and the Royal Dispensary (Duncan's). Mr. John G. Gilmour was elected *President* and Mr. R. Gould, Heriot-Watt College, Edinburgh, *Secretary*. Principal Smail and Professor Slater Price were elected *Honorary Presidents*, and lecturers on the pharmacy staff *Honorary Vice-Presidents*. Mr. Eric Knott, Ph.C., introduced the speaker, Mr. John Gilmour, Dunfermline (a member of the Scottish Board of Examiners of the Pharmaceutical Society and father of the president of the Association). Mr. John Gilmour's father, he said, had himself been a member of the Board of Examiners for Scotland and a member of Council of the Pharmaceutical Society. Mr. John Gilmour spoke on "The Student and Examinations." In congratulating the students upon their enterprise in the formation of the Association, he said they had the privilege of being students in one of the most honoured and famous colleges in the country. After a reference to the extended syllabus, Mr. Gilmour said "I am all in favour of the higher education of the pharmacist and that he should have an intelligent appreciation of the medicaments he handles and the conditions under which they reach fullest efficiency, even though he may not have an opportunity of making such preparations or of carrying out frequently in everyday life even the simpler sterilisation processes of the Pharmacopoeia." Mr. Gilmour gave it as his considered opinion that so far as practical dispensing was concerned the average student of twenty years ago was a much better and more experienced dispenser than his successor to-day. He gave the word of warning so that the balance might be in some measure restored. In the written paper it was no uncommon experience to find a candidate writing quite learnedly about emulsions; yet, when it came to the practical examination he could not turn out a decent preparation of a quite simple and ordinary emulsion. It was a mistaken idea, very difficult to dislodge, that in the practical pharmacy examination traps were set for the unwaried.



MR. J. G. GILMOUR

Irish Notes

Irish Drug Association

At a recent meeting of the Committee of the Irish Drug Association a communication was read from the Chemists' Defence Association stating that they did not propose to renew any existing contracts with Irish Free State members owing to the difficulties arising from recent insurance legislation in the Free State. The Committee, after a lengthy discussion, decided to communicate with the C.D.A. with a view to ascertaining if any accommodation could be obtained which would overcome these insurance difficulties, pending which they were asked to withhold a final decision. Complaints were received of shortage of certain patent medicines, and the secretary was instructed to communicate with the wholesale houses to ascertain the cause. The Committee decided that the policy of a manufacturer in confining one of his lines to veterinary surgeons was inimical to the interests of chemists. It was decided to make representations to this manufacturer. The Committee decided to communicate with the manufacturers of certain lines on the Approved List, which were being sold by non-chemist traders, before taking further action. Several new members were elected, and price changes were passed.

Brevities

Under an order now before the Limerick Borongh Council and made at the request of the local Chemists' Association, chemists must close at 8 p.m. on each day of the week, except Saturday, when the hour will be 9 p.m. Provision is made for the sale of medicines and surgical appliances in cases of urgency.

At Glasgow Dog Show recently the Irish wolfhound bitch "Brigid of Ballywilliam," owned by Mr. J. F. Kirkpatrick, 9 Sandown Park, Belfast, was placed second in the open class. Mr. Kirkpatrick is a son of Mr. D. L. Kirkpatrick (secretary of the Pharmaceutical Society of Northern Ireland), and is well known in the drug trade as a commercial representative.

A meeting of chemists who hold positions as compounders or dispensers in hospitals or dispensaries will be held in Jury's Hotel, Dame Street, Dublin, at 2.30 p.m. on March 17, for the purpose of forming an Irish Compounders' Association and appointing a committee. The objects of the Association will be to raise the status of the compounders as regards better salaries and the making of their positions pensionable. St.

Patrick's Day has been fixed for the meeting as excursion trains are running from all parts of the Free State to Dublin on that day. The temporary secretary is Mr. J. J. Sewell, 37 St. Laurence's Road, Clontarf, Dublin (and at Killarney).

Cork

Mr. Arthur Elyan, M.P.S.I., has opened a pharmacy at the South Mall, Cork (next door to the Hibernian Bank). Mr. Elyan was formerly in business in Dublin, Glasgow and London. His shop is the only pharmacy in the area.

The second annual dance of the Cork pharmaceutical chemists and students was held recently at Arcadia Ballroom, Cork. Spot prizes surpassed those of last year and added to the general enjoyment of the evening. The committee included Messrs. McManus, O'Regan, Cashman, Kenny, Fielding, Duncan, Gibbs and Gallagher, and the Misses Barry, O'Donovan, Tinte, Harrington, McCarthy and O'Mahoney. The following firms contributed to the spot prizes:—Irish Pharmaceuticals, Ltd. (3); St. Dalmas (Ireland), Ltd.; Victor Hanna, Ltd.; Johnson Bros.; T. J. Smith & Nephew, Ltd.; May, Roberts (Ireland), Ltd.; Evans Sons Lescher & Webb (Ireland), Ltd.; Thos. Guest & Co., Ltd.; Ayrton, Saunders & Co., Ltd.; Bayer Products, Ltd. Local firms contributing were Messrs. Lester, Marple, Croft, McSweeney, Roche, Matthew Thomas, Broderick, Fielding, Water, Cork Chemical Co., Hay. Mr. Bernie made a personal gift.

Belfast

At Belfast Police Court, recently, Henry O'Brien, London, and John Hammond, Belfast, were each sentenced to fifteen months' imprisonment with hard labour for breaking into the shop of Mr. Alfred W. Mann, Ph.C., Fountain Street, and stealing cosmetics valued at £1 11s.

There was a good attendance of past and present members of the staff at the annual reunion of Grattan & Co., pharmaceutical chemists, Belfast. After tea, the chair was taken by Mr. Scott. Mr. Fellingham welcomed past members, thanked Mr. Pring, sen., for his generosity, and regretted the latter's absence. He also thanked Mr. Spence, who had charge of the programme. The toast of "The Firm" was responded to by Mr. Gordon Pring, who said he was delighted to see so many present. During an interval Mr. Leech, of the branch establishment, handed a token of esteem to Mr. Hunt, who was leaving to take up an appointment in Derry.

Topical Reflections

By Xrayser

The International Circulation

of THE CHEMIST AND DRUGGIST is well marked by the Miscellaneous Inquiries page in last week's issue (p. 264), where you have replied to questions raised by subscribers in South Africa, India, Canada and the United States. It is not only the world-wide circulation that is indicated in this section of the paper, but the extraordinary range of subjects covered by the information there presented. It is a further example of the ramifications of the drug trade, and though it does not seem likely that this is the reason for the comprehensive syllabus of the Pharmaceutical Society's examinations, it might be adduced in justification. Presumably the replies form but a proportion of the answers to correspondents, since in the years gone by I frequently made use of your service on matters which seemed to me to be of general interest to the trade, but only occasionally did your helpful reply appear in type.

There is no Clique

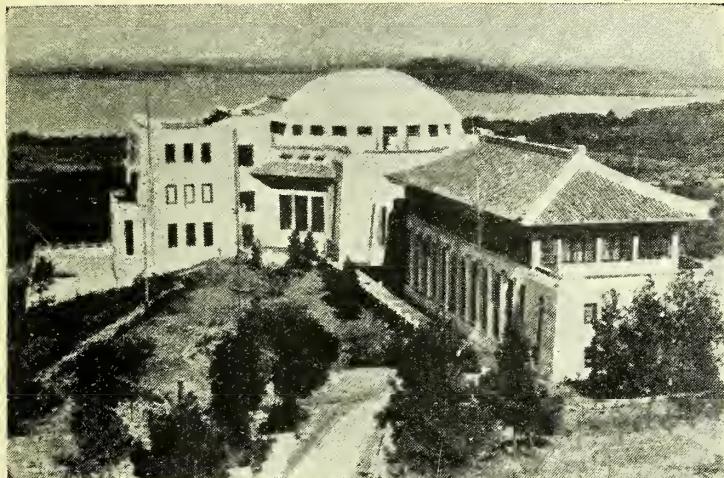
or official opposition in the Society's Council, according to Mr. H. M. Hirst (p. 241), and herein lies perhaps one of the reasons for the apathy which pervades pharmacy. Virility among the leaders of any organisation is invariably reflected among the rank and file, and if a stimulus in the form of an active opposition were available, perhaps officials would not take "part in debate much more than is usual at a town council meeting." One of the election cries is that pharmaceutical affairs should be conducted by those who have

experience in everyday problems in the shop, yet it would appear that the guiding spirits are the officials. In other words there is bureaucratic rather than democratic control.

I was One of the First

who bought copies of the report of the Select Committee on Medicine Stamp Duties published on February 26. This report may well date the beginning of an epoch in the history of pharmacy. There is very little of it, and it has been written in comparatively simple language. The recommendations are short. The proposed net has been spread very wide and will catch practically every preparation, whether medicinal or toilet and whether used internally or externally, which claims to be for the "prevention, cure or relief of any human ailment, defect, disorder, condition or habit or for the treatment of any part of the human body," etc. Almost all the old exemptions are swept away. This is not the time to go into details; but in my opinion the implications of the report, if it is embodied in an Act, are likely to be serious to pharmacists. I believe that the number of patent-medicine licence holders will be greatly increased and that the bazaars will add the sale of medicines to their business. The suggested scale of duty is ingenious. It is a humiliating thought that after the service rendered by chemists the findings of the Select Committee should be so hostile to them, and that their modest claim to have certain privileges in the sale of proprietary medicines should be dismissed in a few curt words with the remark that any protection they are stated to give in selling these medicines is "in many cases illusory."

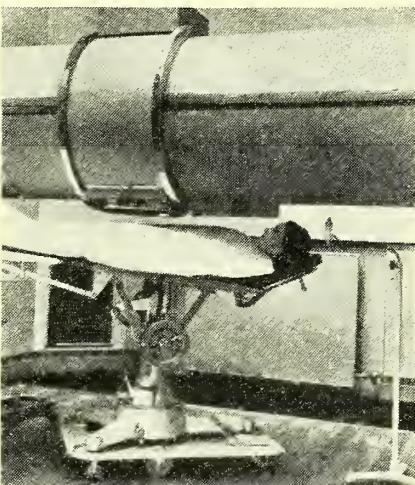
News in Pictures



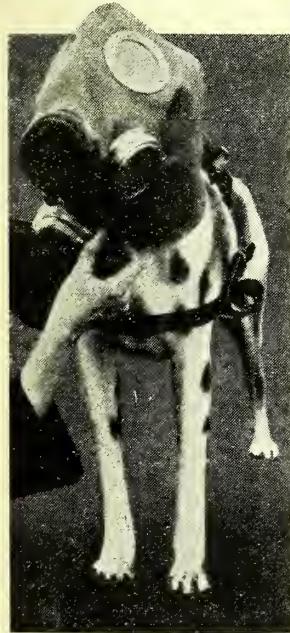
SCIENCE IN THE FAR EAST—The chemistry building, University of Wu-han, province of Hupei, China.



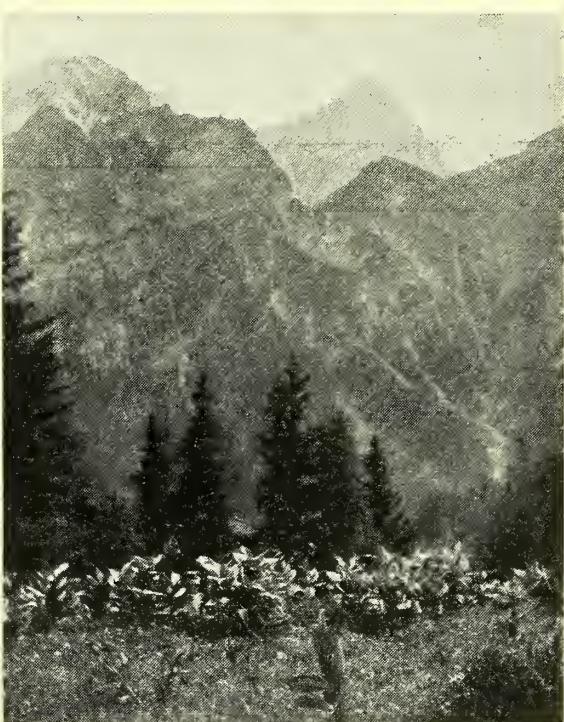
PROFESSOR OF PHARMACY
—Mr. J. P. Todd, Ph.D., Ph.C., newly appointed Professor of Pharmacy, Royal Technical College, Glasgow.



GIANT X-RAY APPARATUS—Claimed to be the largest ever made, the apparatus illustrated, installed at St. Bartholomew's Hospital, London, weighs ten tons.



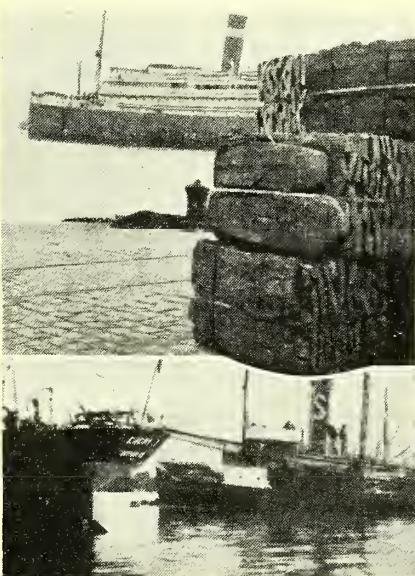
CANINE GAS MASK
—Adjusting a mask designed to fasten round a dog's head by means of shoulder straps.



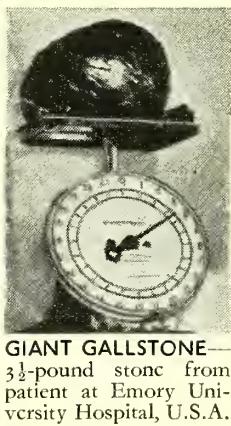
WHERE GENTIAN GROWS—Yellow gentian (*Gentiana lutea*) in its natural setting. A photograph taken near Pertisau, Achensee, in the Austrian Tyrol, within sight of the Sonnenjoch mountain.



(Above) NEW DUBLIN PHARMACY—The premises of Mr. John J. Smith, 197 Tyrconnel Road, Inchicore, Dublin.



(Left) CORK-OAK FOR SHIPMENT—Bales of cork-oak, destined for Japan, on the dock at Algiers, N. Africa. Below, the material on pontoons preparatory to shipment.



GIANT GALLSTONE—
3½-pound stone from patient at Emory University Hospital, U.S.A.

Legal Reports

Pharmacy and Poisons Act, 1933.—At Swansea Police Court, on February 23, Mrs. E. Shatz, Glamor Drug Store, was summoned on four charges relating to the sale of a bottle of Famel Syrup. The stipendiary magistrate imposed a fine of £5 on the first summons, ordering the defendant to pay costs on the other three. It was stated for the defence that when the defendant's husband, a chemist, transferred the Glamor Road business to his unqualified wife, so that he could look after another business in the town, he removed all the poisons he could find, but unfortunately overlooked the one bottle which was the subject of the summons.

At Slough Police Court, recently, Reginald George Hearmon was fined £1, with £1 1s. 6d. costs, for having sold a disinfectant containing poison and failing to label it in the prescribed manner.

At Llanelli, recently, Mr. William H. Dennis, chemist and druggist, Llwynhendy, was fined £2, with 21s. costs, for having sold strichnine, contained in compound syrup of hypophosphites, on unregistered premises.

At Princes Risborough, recently, Herbert Witney, High Street, was fined 5s. on each of two charges, with 31s. 6d. costs, for having sold a bottle of Jeyes' Fluid from a van.

At Nottingham Police Court, on February 26, Frank Yates, seedsman, Pelham Street, pleaded "Guilty" to selling an insecticide containing 15.79 per cent. of nicotine without being a listed seller, and to storing it in a shop "in other than the preferred places." The summonses were dismissed on payment of 20s. costs.

At Leicester, recently, William Taylor, grocer, Grasmere Street, was summoned on four counts for having illegally sold amidopyrine contained in cachets. The defence was inadvertence. The chairman of the Bench said that as it was the first local instance of a prosecution under a new Act, and as Taylor was only in a small way of business, he would be fined 1s. in each of the four cases. An application for costs was refused.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

PRIORY LABORATORIES, LTD. (P.C.).—Capital £100. Objects: To carry on the business of chemists and druggists, etc. R.O.: Thornton House, Finsbury Square, E.C.2.

MADRALL'S, LTD. (P.C.).—Capital £100. Objects: To carry on business in razors, perfumes, soaps, hair nets, etc. Frank A. Cox, senr., 221 Mansfield Road, Nottingham, director.

CALDWELL DUMBRECK, LTD. (P.C.).—Capital £450. Objects: To carry on the business of manufacturing chemists and druggists, etc. R.O.: Elim Laboratories, West Harnham, Salisbury.

ORMSBY WADESON, LTD. (P.C.).—Capital £300. Objects: To acquire the premises situate 93 Stockport Road, Marple, Ches, and there to carry on the business of chemists and druggists.

REMCO, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of dealers in pharmaceutical and other preparations, drugs, etc. Percy L. Potton, 104 Merton High Street, Wimbledon, S.W.19, director.

DAVID BLACKSTONE, LTD. (P.C.).—Capital £100. Objects: To acquire the business of a chemist and druggist carried on by David Blackstone at 46 Windsor Terrace, Grangetown, Sunderland, as "David Blackstone."

J. W. STEVENS (MORDEN), LTD. (P.C.).—Capital £100. Objects: To carry on the business of glue, gelatine and chemical manure manufacturers and merchants, etc. R.O.: India House, 84 Leadenhall Street, E.C.3.

GLASGOW MINERAL WATER SUPPLY CO., LTD. (P.C.).—Registered in Edinburgh. Capital £3,000. Objects: To carry on the business of mineral and aerated water manufacturers, etc. R.O.: 33 Bath Street, Glasgow, C.2.

G. L. PRODUCTS, LTD. (P.C.).—Capital £200. Objects: To purchase and sell essences, lotions, oils, soaps, creams and toilet requisites, etc. The first directors are to be appointed. Secretary: Charles Loilier, 40D Courtfield Gardens, London, S.W.5.

PHILIP SHRANK, LTD. (P.C.).—Capital £2,000. Objects: To adopt an agreement with P. Shrank and M. Shrank, and to carry on the business of manufacturers of and dealers in chemists' and druggists' sundries, etc. R.O.: 62 Oxford Street, W.1.

J. W. CLARK (CHEMISTS), LTD. (P.C.).—Capital £500. Objects: To adopt an agreement with Baker's Pure Drug Co., Ltd., and to carry on the business of wholesale, retail and manufacturing chemists and druggists. R.O.: 127 Belgrave Road, Ilford.

STONHAM & SON, LTD. (P.C.).—Capital £5,000. Objects: To acquire the business of a wholesale and retail chemist and druggist, etc., carried on by Arthur Crick, as "Stonham & Son," at 70 Bank Street, and 67B Week Street, Maidstone, and 9 High Street, Tonbridge.

BIOCHIMIE, LTD. (P.C.).—Capital £2,000. Objects: To carry on the business of manufacturers of and dealers in chemicals, drugs, medicines, toilet requisites, etc. The directors are: Raymond P. A. Jacquemin, Pierre Jacquemin, Fred Lehnott and Felix Vanoutryve, addresses not stated.

REDAVES CHEMICAL CO., LTD. (P.C.).—Capital £1,000. Objects: To acquire the business of a chemical and colour manufacturer carried on by Cyril Duane as "Redaves Chemical Co.," at Spring Mill, Tottington, Bury. Cyril Duane, 89 Radcliffe Road, Bury, manufacturing chemist, director.

ESCOS CHEMICALS, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of manufacturers of and dealers in chemicals, pharmaceutical, cosmetic and perfumery products, etc. Wm. E. Davis (chairman), Elton, Stockton-on-Tees (managing director of Schalfler, Ltd.), director. R.O.: 91/93 Southwark Street, S.E.1.

SULFUROPHOSPHATE MANUFACTURING CO., LTD. (P.C.).—Capital £1,000. Objects: To carry on the business formerly carried on by Sulfuroposphate, Ltd., and that of manufacturers of and dealers in fertilisers, chemicals, etc. The first directors are to be appointed. Solicitors: Cosmo Cran & Co., 5 Devonshire Square, E.C.2.

PRIMROSE PRODUCTS (BRITISH), LTD. (P.C.).—Capital £1,200. Objects: To carry on the business of manufacturers of and dealers in chemicals (other than cream of tartar), drugs, patent medicines, etc. Herbert N. Bream, Dalina Works, Leicester, Colman Fazakas, 29 Portugal Street, Kingsway, W.C.2., directors. R.O.: Africa House, Kingsway, W.C.2.

DEKUR, LTD. (P.C.).—Capital £500. Objects: To carry on the business of an investment and trust company. Power is taken to manufacture and deal in powders, soaps, ointments, perfumes, etc. Harold J. A. Kinsman, 51 Grove Court, St. John's Wood, N.W.8, member of London Stock Exchange, and Herbert E. W. Robson, 19 Hammerton Road, Bromley, Kent (director of Dekur Preparations, Ltd.), directors. R.O.: 43 Aldwych, W.C.2.

SOUTH ZEAL PHARMACY, LTD.—At a meeting held in Okehampton recently it was resolved that this company be wound up voluntarily. Mr. H. Ellett, Rolle Chambers, Exmouth, was appointed liquidator.

L. SCOTT & CO. (CHEMISTS), LTD.—At a meeting held in London recently it was resolved that this company be wound up voluntarily. Mr. P. S. Booth, 14-17 Holborn Viaduct, London, E.C.1, was appointed liquidator.

MONSANTO CHEMICALS, LTD.—Trading profits amounted to £181,226 for 1936, against £168,860 for 1935, and the net profit, after providing £41,883 (against £30,193) for income tax, to £115,721, against £111,066. In addition a balance of £1,059 is credited from provision for contingencies not now required. After setting aside £16,844 for preference dividends, the balance forward is raised from £97,827 to £197,764. Current assets are shown at £618,022, against current liabilities of £168,970.

Voluntary Liquidation

L. Scott & Co. (Chemists), Ltd., 101 Mitcham Lane, London, S.W. At the meeting of the creditors Mr. L. E. E. Scott, one of the directors, presided, and a statement of affairs was submitted showing liabilities of £1,397 16s. 6d., made up as follows: Trade creditors £375 11s. 5d.; cash claims £984 5s. 4d.; and bankers £37 19s. 9d. The assets totalled £202 1s. 3d., from which had to be deducted £84 3s. 1d. for preferential claims. The net assets, therefore, were £117 18s. 2d., or a deficiency, so far as the creditors were concerned, of £1,279 18s. 4d. The company was registered in March 1933 with a nominal capital of £100, all of which had been issued and paid up. The company took over an existing business, the purchase price being £561 for the stock, fittings, etc. The trading account showed that during the year to February 1934 the turnover was £1,411, whilst in the two following years it amounted to £1,442 and £1,356 respectively. Since March of last year the turnover had been £1,186. The company had been handicapped by lack of capital and recently creditors had pressed. Efforts had been made to sell the business as a going concern, but without success. A cash creditor for £561 had offered to withdraw his claim. Resolutions were passed confirming the voluntary liquidation of the company with Mr. Parkin S. Booth, of the Association of Manufacturing Chemists, Kimberley House, Holborn Viaduct, London, E.C., as liquidator, with a committee.

Private Arrangement

Barnet Margolis, 249 Green Street, Bethnal Green, and elsewhere, chemists' sundriesman, etc. The adjourned meeting of creditors was held recently at Southern House, Cannon Street, London, E.C. Mr. W. H. Cork, of Messrs. W. H. Cork & Co., 19 Eastcheap, London, E.C., said it would be remembered that the statement of affairs showed liabilities of £4,066 18s. 1d., against net assets of £1,380 2s. 6d., or a deficiency of £2,686 15s. 7d. The principal asset was the stock, which was estimated to produce £1,000. The meeting had been adjourned to enable him to make an investigation, and for the protection of the estate a deed of assignment was executed to him. He was surprised, the day following the first meeting, to learn that an interim receiving order was applied for and was granted. The debtor commenced his present business in 1933 at 249 Green Street. The business appeared to have been a prosperous one, and apart from the outdoor connexion quite a fair trade was done over the counter. About eighteen months ago the Fascists opened headquarters at premises in Green Street, opposite the debtor, and he asserted that their propaganda ruined his wholesale counter trade, which had been very profitable. In order to maintain the business the debtor began to supply stallholders who, owing to their particular class of trade, required goods at the very cheapest rates, and it became necessary for him to buy in very large quantities. The debtor also alleged that he had suffered considerable loss owing to non-delivery on agreed dates of goods purchased forward from foreign suppliers. During 1935 the turnover was £8,935, with a gross profit of £3,681, and a net loss of £358. Last year the sales increased to £17,047, but the gross profit was only £156, and there was a net loss of £972. On behalf of the debtor an offer was made of a composition of 5s. in the £, payable by instalments spread over twelve months. A resolution was passed in favour of the matter being dealt with in bankruptcy and the debtor's solicitor stated that his client would consent to an immediate receiving order being made against him. It was also decided that Mr. W. H. Cork should be appointed as the trustee in the bankruptcy.

Gazette

Bankruptcy Acts

ADJUDICATION

WHITE, R. E., 233 Bristol Street, Birmingham, chemist.

RECEIVING ORDER AND ADJUDICATION

SMITH, H. L., 120 Rochdale Road, Blackley, Manchester, chemist.

Stock Exchange Prices

£1 shares unless otherwise stated	Dec. 31,	Jan. 29,	Feb. 26,	
	1936	1937	1937	
	s. d.	s. d.	s. d.	
Allen & Hanburys, 7% Prefd. Ord.	26 3	27 0	26 6	
Amalg. Dental Co., 8% Prefd. Ord.	27 6	27 3	26 3	
Deferred £1	18 6	18 6	18 9	
Aspro, Ltd.	18 9	20 3	19 0	
Ayrton, Saunders & Co., 7½% Pref.	25 0	25 0	25 0	
Beechams Pills, Deferred 5s. shares	63 0	62 0	58 0	
Benger's Food, Ord.	38 0	38 0	37 6	
Benzol & By-Products cum. part. Pref.	6 3	8 3	7 3	
Berger (Lewis) & Sons, Ord.	73 1½	75 9	71 3	
Blundell Spence & Co.	22 0	22 0	17 6	
Boake (A.), Roberts & Co., 5% Pref.	22 0	22 0	22 0	
Boots Pure Drug, Ord. 5s. shares	60 0	59 9	56 6	
Boots Pure Drug, 7% "A" Prefd. Ord.	33 3	33 3	33 3	
Boots Cash Chemists (S.), 6% "A" Pref.	29 0	29 1½	29 1½	
Borax Consol., Dfd. Ord.	35 6	35 9	33 0	
Bovril, Ord.	27 3	29 9	29 0	
Defd.	24 3	25 1½	22 9	
British Industrial Plastics (formerly British Cyanides), Ord., 2s. shares	3 1½	3 1½	3 3	
British Drug Houses, The, Ord.	21 9	21 6	22 3	
British Glues & Chemicals, 4s. Ord.	9 10½	10 10½	10 0	
British Oil and Cake Mills, Prefd. Ord.	48 6	48 6	47 6	
British Oxygen, Ord.	120 0	135 0	122 6	
British Photo, Indus., 6% Cum. Pref.	4 0	4 4½	4 6	
Burt, Boulton & Haywood, Ord.	24 9	24 0	24 3	
Bush (W. J.) & Co., 5% Pref. £5	110 0	107 6	115 0	
Callard, Stewart & Watt, Ord.	12 0	12 3	12 3	
Cooper, McDougall & Robertson, Ord.	37 0	38 0	37 6	
Crosfield (Joseph) & Sons, 6½% Pref.	28 9	28 9	27 9	
Dubarry Perfumery, Ord. 1s.	3 4½	3 1½	3 0	
7½% Pref.	26 3	26 7½	25 0	
Eno Propriet'y, Ord. 5s.	8 10½	8 6	8 3	
Evans Sons Lescher & Webb, Ord. 6s. 8d.	shares	5 3	5 6	6 0
6% cum. part. Pref.	8 3	8 3	8 0	
Field (J. C. & J.), Ord.	27 6	27 3	24 0	
Galloway (P.H.), Ord. 2s.	3 6	3 7½	3 7½	
7½% Cum. Pref.	26 6	27 3	27 6	
Genatosan, Ltd., 1s.	6 4½	6 3	5 9	
Gossage (William), 6½% Pref.	29 0	28 6	28 6	
Greeff-Chemical H'dings, Cum. Pref. 10s.	11 9	11 7½	11 6	
Ord. 5s.	9 6	10 6	10 3	
Griffiths Hughes (Kruschen) Ord.	47 6	44 3	40 0	
Grout & Co., Ord.	19 6	19 3	19 6	
Hodders, Ord. 1s.	0 10½	1 0	0 10½	
Iford, Ltd., Ord.	28 9	28 3	28 9	
6% Pref.	26 9	25 6	26 0	
Imperial Chemical, 7% Pref.	35 0	32 3	31 0	
Ord.	41 6	40 6	40 0	
Intern. Sponge Importers, 6% Pref.	8 9	10 0	11 9	
Kent (G. B.) & Sons, 5½% Pref.	2 6	3 0	3 0	
Knight (John), 25% Prefd. Ord.	107 6	97 6	95 0	
Laporte (B.) & Co., Ltd., Ord.	123 9	126 3	123 9	
Lever Bros., Ltd., 7% Pref.	33 6	30 6	30 6	
8% Pref.	34 9	32 6	31 6	
20% Prefd. Ord. £1	78 0	77 9	76 0	
Lewis & Burrows, Ord.	24 0	24 9	24 9	
6% Pref.	22 6	22 6	21 6	
Liebig's Ext. of Meat, Ord. £5	£17½	£18½	£17½	
Macleans 6% Red. Pref.	23 1½	23 0	22 6	
Mellin's Food, 6% Pref.	2 6	2 3	2 6	
Nathan, J. (Glaxo), 7% Pref.	25 7½	25 1½	25 6	
8% Prefd. 10s.	13 6	13 9	13 0	
Ord. 1s.	7 9	8 3	8 0	
Pears (A. & F.), 5% Deb. £100	£110	£110	£110	
Reckitt & Sons, Ord.	115 0	113 9	103 9	
Salt Union, Ord.	45 3	45 3	42 6	
Sangers, Ord. 5s.	28 6	27 6	26 6	
"Sanitas," The Co., 9% Pref.	32 0	30 6	30 0	
Sanitas Trust, 10% partic. Pref.	30 0	30 9	29 3	
Smith (Stephen) & Co., Ord. 5s.	10 9	11 0	11 6	
Spratt's Patent, Ord.	67 0	65 0	64 0	
Stevenson & Howell, 6½% Cum. Pref.	27 0	26 6	26 3	
United Glass Bottle Man., Ord.	50 6	50 6	51 3	
Veno Drug Co., 8% Pref.	27 9	25 9	24 0	
Virol, Ltd., Ord.	28 9	28 9	28 9	
7% Pref.	25 6	25 6	25 0	
White (A. J.), Ltd., Ord. 10s.	21 6	20 7½	19 9	
White (Timothy) & Taylors, 7½% Pref.	31 9	30 3	28 3	
Ord. 5s.	34 6	33 0	32 3	
Woodlands Chemists, Ord. 5s.	1 6	1 3	1 4½	
Wright, Layman & Umney (1932), 7% cum. Pref.	23 9	22 6	22 6	

Medicine Stamp Duties Committee Report

THE report of the Select Committee on Medicine Stamp Duties was issued on February 26 (price 3d.) by H.M. Stationery Office. The minutes of evidence were not available at the time of going to press with this issue. The principal passages in the report are as follows:—

EVIDENCE

1. Your Committee have heard evidence from all sources which they considered could yield useful information or opinions regarding the subject of their enquiry. . . .

STAMP DUTY LAW

2. [Historical summary of legislation on the subject.]

SCALE OF DUTIES

3. The original scale of duties contained in the Act of 1802 was maintained until 1915 when by the Finance (No. 2) Act of that year the duties were doubled. This provision was repeated every year in the Finance Act until 1927, when, by the Finance Act of that year, the duties were made permanent. [The scale of duties is printed in the report.]

Your Committee are of opinion that the graduation of the duty is too steep. Their principal objection is that the cheaper the article the higher is the rate of duty, so that (unless bulk is broken, see para. 14) it is impossible to sell dutiable articles at prices which all sections of the public can easily afford. An article, for example, made to sell at 2d. attracts a duty of 3d. (150 per cent.) and at 1s. 1d. a duty of 6d. (about 50 per cent.). This scale appears to Your Committee to be inequitable, and the percentage rates to be somewhat burdensome.

Your Committee have given careful consideration to the relative suitability, from various aspects, of a strict *ad valorem* duty on the one hand, and a stepped duty (similar to that now in force, but more evenly graduated) on the other. For the reasons given later (in para. 18) they consider a stepped duty to be preferable.

In view of Your Committee's recommendation on this matter, they here point out that the inequalities inseparable from such a duty are more apparent than real.

CRITICISMS OF EXISTING LAW

4. The provisions of the Stamp Duty Acts of which a short survey has been here made have been further obscured and complicated as the result of a number of judicial decisions during the past sixty years, and were described by the High Court in 1931 as "a mass of confused obsolete verbiage." The result of all this has been to create numerous anomalies and to make legally possible avoidances of the duty not originally contemplated. . . .

LIABILITY TO DUTY

5. The present position regarding liability to duty, based on the Act of 1812, may be summarised for all practical purposes thus:—

All preparations (as defined in the Schedule quoted above in para. 2) to be used as medicines or medicaments which are:—

- (a) secret, or claimed to be such; or
- (b) proprietary or claimed to be such; or
- (c) held out or recommended as beneficial for the prevention, cure or relief of any human ailment

are liable to duty. These criteria of liability frequently overlap.

VARIOUS ANOMALIES

6. Only those preparations which were to be used "as medicines or medicaments" were included in the list, and it is seen at once that many articles which may be recommended by every art of advertisement to relieve, cure or prevent one or more human ailments, defects or bodily conditions are not liable to duty. There are at the present time a large number of such products which, though not strictly medicines, are widely advertised, in effect, for the relief, cure or prevention of some human ailment. Numerous examples can be found in the popular Press and in other publications of tonic foods, beverages (alcoholic and otherwise), appliances (such as deaf aids and trusses), meat extracts, cereals, bread and even mustard which are so recommended. . . .

A further anomaly which Your Committee urge should be abolished is that whereby a preparation which is liable to duty

where it is recommended by the use of an ailment name, is free from liability where reference is made only to an organ or part of the body (e.g., Backache and Kidney Pills are liable; Back and Kidney Pills are not).

Your Committee are of opinion that the law should be brought up to date in this respect. . . .

7. The Act of 1812 . . . allowed special exemptions to three classes of preparations of which one is now obsolete. The other two are "single drugs" (drugs sold without the admixture of any other ingredient) and what are called "known, admitted and approved remedies. . . ."

8. Numerous "single drugs" sold under fancy names and with a full recommendation for the relief of ailments have successfully claimed exemption. The "known, admitted and approved remedy" exemption is obscure and entirely out of date. It was not claimed for nearly 100 years until in 1903 a judgment was given in the Courts. . . .

As a result of this it was decided not to question any recommendation for the future, but to allow qualified chemists to sell unstamped all remedies recognised as "known, admitted and approved" which were not secret or proprietary. Following a further judicial decision (Attorney-General v. Lewis and Burrows, Ltd., 1932, 1 K.B. 538) the present position is that this exemption may be successfully claimed where a formula in accordance with a standard book of reference is printed on the label and proprietary rights are disclaimed.

9. By the Act of 1812 "all artificial Mineral Waters and all waters impregnated with . . . carbonic acid gas . . . and all compositions . . . for making . . . the said waters" were specifically laid under duty. At a later stage (1833) this item was repealed, but medicinal waters or compositions for making them, recommended for human ailments, continued to pay duty until 1878, when by a judicial decision it was held that the earlier repeal operated as an exemption from duty for all such waters or compositions for making them. Since then all salines have escaped duty even though held out to the public as medicines. . . . Your Committee are of opinion that no case was made out for their exemption from duty. Many natural waters similarly claim to be remedial, and Your Committee are of opinion that such a claim should involve liability. . . .

Another class of preparation which Your Committee are of opinion should be made liable to duty consists of medicines which are usually labelled with prescription numbers and are advertised "to compete with" or to be "equivalent to" well-known proprietary remedies. . . .

Evidence was heard on behalf of medical herbalists and of makers of veterinary medicines. Your Committee are of opinion that herbal remedies should conform to the law relating to medicines generally, but that animal medicines, at any rate for the present, should continue to be exempt from liability to duty, except when advertised for the relief of human ailments, or bodily conditions, etc. Your Committee are of opinion, however, that the suitability for taxation of advertised veterinary remedies might well be considered, whilst preserving the freedom from liability of all remedies dispensed by veterinary surgeons.

POSITION OF REGISTERED PHARMACIST

10. While the original intention of the Act of 1783 was to tax the "quack" and to exempt from taxation those "bred to the profession of physician or apothecary," Your Committee are unable to agree that this original exemption is good ground to-day for giving the modern chemist or registered pharmacist a very valuable preference in the sale of preparations which claim the "known, admitted and approved remedy" exemption, referred to in paragraph 8. . . . Your Committee recognise that the registered chemist already has certain advantages, e.g., under the Dangerous Drugs Act, the Pharmacy and Poisons Acts and the Health Insurance Acts, and they feel that the present system of "de-stamping" should not be continued, and that all dutiable remedies should be sold on equal terms by chemists and non-chemists.

There was considerable divergence of evidence regarding the additional safeguard to the public which is provided by the presence of a registered pharmacist on premises where there are large sales of ready-packed medicines. Your Committee, however, take the view that this protection is in many cases

illusory, and they are, therefore, not prepared to put the value of such a safeguard very high.

YIELD OF DUTIES

11. The yield of the medicine stamp duty has fallen during the past ten financial years from £1,295,139 to £747,930 (1925-36). From the peak year (1928-29) during that period, when the figure rose to almost £1½ million, there has been a decrease of no less than 44 per cent. in the yield. This decrease was attributed very largely to the knowledge acquired by manufacturers and chemists of legal methods in securing exemption.

MACHINERY OF COLLECTION

12. An adhesive stamped label bearing the appropriate amount of the duty with the words "No Government Guarantee" is affixed to every "packet, box, bottle, pot, etc., " containing any dutiable preparation, in such a way that the package cannot be opened without tearing the stamp. . . .

EXCISE LICENCE

13. The excise licence to which all persons who either manufacture or sell dutiable preparations are liable is 5s. a year. A separate licence must be taken out for each set of premises.

It is notable that during the nine years 1927-1936 the number of excise licences has more than doubled. . . .

"BROKEN BULK"

14. It is permissible for any retailer who holds an excise licence to open a package upon which the manufacturer has paid duty, and to which an appropriate stamp has been affixed, and to sell the contents separately, provided that they are not enclosed in a dutiable enclosure. This is generally referred to as "broken bulk," and is very largely resorted to by retailers, especially in the poorer districts. Your Committee are very strongly of opinion that great hardship would be caused if any obstacle were to be placed in the way of persons who wish to buy medicines in small quantities. If, however, the recommendation which Your Committee will submit later is approved, "broken bulk" should become far less necessary and the possibility of making the practice illegal might well be considered.

YIELD OF PROPOSED DUTY

15. Interesting figures were given to Your Committee regarding the turnover of the proprietary medicine trade. The retail turnover of the members of a large association of important manufacturers was stated to be £13½ million. It was further suggested that proprietary medicines manufactured apart from these would bring the total turnover of the trade to at least £28 million. . . .

If a somewhat more conservative estimate of the unknown element is accepted, it would appear that the annual turnover might reach the figure of £20 million, in which case a duty of 16½ per cent. would yield approximately £3,300,000, in the event of the abolition of many existing exemptions. . . .

CONTROL

16. Your Committee have endeavoured to limit their enquiry as far as possible to their terms of reference, which they have interpreted as precluding them from making any departure from the fiscal aspect of the question. Strong opinions were, however, expressed by certain witnesses in the course of the enquiry that some form of control of the medicine trade was desirable, to safeguard the public from fraudulent exploitation. Authoritative statements were made to the effect that people (largely the poorer and less well-educated) spend more money than they can afford on remedies of little or no efficacy, with an accompanying indirect danger to health as a result of their not seeking medical or surgical treatment in time. . . .

CONCLUSIONS

17. Your Committee reached the following conclusions:—

(1) That the existing Stamp Acts, passed over 100 years ago, are out of date, largely obsolete and quite inappropriate to modern requirements.

(2) That owing to out of date exemptions and to a number of judgments in the courts, wholesale avoidance of duty has been practised which has led, during the last nine years, to a remarkable decrease in the yield of the duty (nearly 50 per cent.).

(3) That the law should be simplified, thus removing those obscurities which at present give rise to numerous anomalies and add greatly to the difficulties of administration.

(4) That, in spite of some evidence to the contrary, the trade in medicinal articles is, in their opinion, one which is suitable for taxation.

(5) That the rate of duty should be lowered, particularly in the lower ranges, and more evenly graduated.

(6) That it is undesirable that the same product should be sold by different vendors stamped and unstamped.

(7) That a far larger range of preparations should be made liable to duty.

RECOMMENDATIONS

18. Your Committee therefore make the following recommendations:—

Repeal

(1) That the Acts of 1802, 1804, 1812, Section 2 of the Finance Act, 1927, and all other existing legislation on the subject of Medicine Stamp Duties be repealed.

Dutiable Articles

(2) That, subject to the exemptions mentioned in (5) below:—

Preparations or substances of any sort, including medicines, medicaments, medicated articles, drugs, herbs, fumigants, inhalants, disinfectants, antiseptics, soaps, tooth pastes, tooth powders, mouth washes, medicated wines, natural or artificial mineral waters or compositions for making such waters, confectionery, toilet preparations and cosmetics to be used or applied externally, internally or otherwise, as medicines or medicaments, which are recommended, held out, or advertised in any way whatsoever either directly or indirectly (whether by public display, wireless telephony or other mechanical reproduction of the human voice or by label, notice, circular or other written recommendation or otherwise) for the prevention, cure or relief of any human ailment, defect, disorder, condition or habit or for the treatment of any part of the human body or for the protection or maintenance of bodily health should be liable to a duty based on the retail selling price.

Duty Scale

(3) That the present scale of duties should be revised as follows:—

	<i>Retail price excluding duty.</i>	<i>Rate of duty.</i>
Exceeding	Not exceeding	
—	½d.	½d.
½d.	1½d.	½d.
1½d.	3d.	½d.
3d.	6d.	½d.
6d.	..	1d. for the first 6d. and 1d. for every 6d. or part of 6d. over 6d.

Note—. . . If, however, it were decided to adopt an *ad valorem* percentage duty Your Committee would recommend a rate of 16½ per cent., i.e., 2d. in the 1s.

Excise Licence

(4) That the Excise Licence of 5s. per annum be continued as heretofore.

Exemptions

(5) That exemption be granted to

(a) all medicines, etc. (as set out in paragraph 2 above) recommended and sold solely and exclusively to registered members of the medical or dental professions;

(b) all preparations, etc., supplied to registered medical or dental practitioners for use in the discharge of their professional duties, also all preparations, etc., supplied to registered pharmacists or registered medical or dental practitioners for use in dispensing as a component part of medicines prescribed by such practitioners;

(c) all medicines, etc., exported for use or consumption abroad; and

(d) all British spa waters consumed only at the place of origin.

Your Committee would urge consideration of the propriety of taxing foods and certain appliances (such as deaf aids), beverages (alcoholic and otherwise) and other preparations widely advertised as possessing properties beneficial for health. They further put forward the view that, if it is found difficult to distinguish between cosmetics which claim to be remedial and those which do not, the taxation of all cosmetics might receive consideration.

Should control of the trade in medicines and appliances be deemed desirable, for the protection of the public. Your Committee believe that the best method of achieving this would be a system of examination and registration. . . .

Pharmaceutical Society of Great Britain

Council Meeting

THE date and time of the annual meeting of the Pharmaceutical Society were fixed at the March meeting of the Council, held at 16 Bloomsbury Square, London, W.C.1, on March 3, the president (Mr. T. Marns) in the chair. The Council decided on May 19, at noon. There was no item of outstanding interest, the report of the Select Committee on Medicine Stamp Duties having been discussed in private.

TUESDAY'S PROCEEDINGS

Among the business considered by the Council at their meeting on March 2 were the following items:—

A letter was received from Mr. McNeal concerning resolutions passed at a meeting of the Wolverhampton and District Branch on February 17, dealing, among other matters, with the desirability of members of the Society being permitted to resign on retirement from practice. The secretary was instructed to explain to the Branch that members wishing to retire from the Society might intimate that it was their desire to do so and that this would be accepted for all except statutory purposes as resignation. Pending the amendment of the Act the statutory formalities would have to be complied with as a formal matter.

A letter was received from the resident secretary in Scotland concerning the Methylated Spirits (Scotland) Bill. The president was authorised to take such action as might be necessary to draw the attention of members of Parliament to certain disadvantages in the method of control of methylated spirits provided for in the Bill in the event of the Bill appearing likely to come up for second reading.

A letter was received from the secretary of the Leeds Branch inquiring whether branches could be consulted before invigilators for the Society's examinations were appointed in the branch areas. The secretary was instructed to explain to the Leeds Branch that while the Council welcome the advice of branches in many local appointments in the case of the appointment of examiners, invigilators and education advisors they have considered it wise to emphasise the special responsibility of the persons appointed to the Council by making this appointment direct.

The Council gave prolonged and careful attention to the contents of the report from the Select Committee on Medicine Stamp Duties. They requested the president to confer immediately with representatives of pharmaceutical organisations with whom the Society have previously been in consultation on this question, and empowered the committee responsible for preparing the Society's evidence to take whatever action it considered necessary in the interests of members.

ILLNESS OF THE VICE-PRESIDENT

THE PRESIDENT, on the resumption of the proceedings on March 3, said he was very sorry to inform the Council that the vice-president was not at all well. Mr. Simmons's daughter had written to say that her father had been told he must rest for at least three weeks. He (the president) was sure the Council would wish to send a letter expressing sympathy and the hope that the vice-president would soon be restored to health. The Council agreed.

THE PRESIDENT added that there were also apologies for absence from Professor Gunn and Mr. Jack.

DEATHS

THE PRESIDENT next made sympathetic reference to the deaths of Mr. A. McMillan, Glasgow, Mr. A. L. Blain, Stockport, Mr. R. Alexander, Strichen, Aberdeenshire, and Sir Henry Jackson. The last-named, he said, was M.P. for Central Wandsworth, and on many occasions had shown his willingness to assist the Society in connection with parliamentary and other matters.

MR. GUTHRIE paid a fervent tribute to the worth and work of Mr. McMillan, who for the last twenty-five years had devoted his great powers, his ability and character to the work of the Society. He was a pharmacist of the type of whom it could be said that they loved their calling. Mr. McMillan had also had a good influence on those who were trained under him.

At the request of the president the Council stood in silence as a tribute to those who had passed away.

REGISTRATION ITEMS

Twenty-two persons were elected as student-associates, and sixteen persons were restored to the Registers. The registrar reported that forty-eight persons had been registered as apprentices or students.

Mr. Eric Hume Phillips, late of Western Australia, now residing at 46 Ralph Court, London, W.2, was registered as a chemist and druggist under the reciprocity agreement.

HERBARIUM COMPETITION

A bronze medal was awarded to Harold Perry Harding, Bridgwater, Somerset, for his herbarium.

EXAMINERS APPOINTED

Examiners were appointed for the Council prize examination and the scholarship examinations.

EDUCATION COMMITTEE

The report of the Education Committee, presented by MR. ROWSELL, showed that matters considered by the Committee included the report of the Privy Council visitor on the examinations held in Edinburgh during the year 1936, applications for concessions in respect of the examination regulations, and for approval of two institutions for the purpose of providing instruction for the Preliminary Scientific examination; also a letter from the secretary to the Sheffield and District Branch referring to the discontinuance of the full-time course of instruction at Barnsley Technical College.

BENEVOLENT FUND COMMITTEE

The report of this committee showed that eleven cases had been considered, and grants made ranging from £5 to £30.

MR. ANTCLIFFE, in moving the adoption of the report, drew particular attention to a donation of £10 from Mr. G. T. Branch, of Rhodesia.

THE PRESIDENT referred to the donation of £22 10s. from the Monmouthshire and Newport Branch, explaining that the wife of the chairman of the Branch had travelled in her own time over 250 miles collecting from retail chemists, and at a recent dinner had presented him with a cheque for £22 10s.

WAR AUXILIARY BENEVOLENT FUND COMMITTEE

The Committee of this fund reported that one application had been received, and a grant made of £26.

CODEX REVISION COMMITTEE

The report of the Codex Revision Committee showed that a letter was received from Mr. F. W. Gamble expressing his wish to resign from the Committee. The resignation was accepted with great regret, and the Committee expressed its thanks to Mr. Gamble for his services.

FINANCE COMMITTEE

The financial statement showed that receipts since the last meeting, including a balance of £7 18s. 3d., amounted to £20,219 9s. 11d., comprising the following items:—Retention fees, £10,662 4s. 6d.; premises fees, £2,244 18s.; subscriptions, £150 9s. 6d.; College—School of Pharmacy, £22 7s. 6d.; College—Pharmacological Laboratories, £312 os. 6d.; registration fees, £98 14s.; restoration fees, £12 1s. 6d.; register correction service, £31 10s.; examination fees, £113 8s.; penalties and expenses, £94 18s. 6d.; rentals, £4 os. 8d.; "Pharmaceutical Journal," £1,214 6s. 10d.; Pharmaceutical Press, £1,567 7s. 6d.; F.S.S.U. contributions, £29 17s.; loan from premises fund, £3,650; sale of library books, £2 3s. 8d.; sundries, £1 4s. Payments ordered at the last meeting amounted to £13,604 12s. 3d., and £6,600 had been transferred to deposit account, leaving a balance of £14 17s. 8d. The balances on the other accounts were:—Benevolent Fund (current account), £29 13s. 4d.; Benevolent Fund (donation account), £18 5s. 10d.; War Auxiliary Benevolent Fund, £48 3s. 4d.; Hills Orphan Fund, £13 8s. 1d.; Orphan Fund, £22 2s. 6d. Accounts amounting to £7,739 9s. 7d. were passed for payment, and the action of the secretary in making payments amounting to £1,674 7s. 1d. was approved.

Trade Notes

VINTEGG.—J. Hobson & Son, Ltd., Regent Street, Leeds, inform us that they have become members of the Brands (W. & S.) Protection Association and have registered Vintegg at the standard prices.

GENIC AIR PURIFIER.—Milford Products Co., Ltd., Forge Mill, Milford, Derbyshire, have sent us a copy of their leaflet on Genic air purifier, which is issued in four sizes, and there are special sizes available for hospitals, churches, etc.

SPRING LIST.—The latest price list and supplement of Dudley & Co., Ltd., 451 Holloway Road, London, N.7, illustrates new designs in showcards and floral decorations for the spring. Details are given of a complete set of chemists' fixtures in polished light oak.

SUN GOGGLES.—Merx Optical Co., Ltd., New House, 67-8 Hatton Garden, London, E.C.1, advertise Eytex sun goggles which are obtainable from leading wholesale houses. The wholesale and export trade only are supplied by this company. Further details appear elsewhere in this issue.

ESSENTIAL OILS, ISOLATES AND AROMATIC CHEMICALS.—Polak & Schwarz (England), Ltd., 155 New North Road, London, N.1, send us a copy of their current price list of essential oils, etc. This list presents a full range of products and prices issued by this company, whose headquarters are at Zaandam, Holland.

PEPSODENT.—Pepsodent, Ltd., Park Royal Road, London, N.W.10, direct attention to increased discount terms elsewhere in this issue for Pepsodent. In addition, an intensive advertising campaign during 1937 has been inaugurated and new display material is available. Chemists are invited to apply for specimens.

SPONGES.—An announcement appeared in last week's *C. & D.* giving particulars of showrooms in Scotland during March, where sponges of all descriptions will be exhibited. A buyers' guide for sponges has been issued with foreword and a copy of the brochure will be sent to subscribers on request by Hydra Sponge, Ltd., 129 Finsbury Pavement, London, E.C.2.

OVARIAN HORMONES.—Boots Pure Drug Co., Ltd., Station Street, Nottingham, have published a new booklet entitled "Ovarian Hormones in Clinical Practice," in which is described their new products Ovostab (estrone benzoate) and Luteostab (corpus luteum hormone). Full details are given for their use. This brochure is issued for the medical profession, and copies may be obtained from Messrs. Boots on application.

COD-LIVER OIL.—Freudentheil, Smith & Co., 21 Mincing Lane, London, E.C.3, have sent us a sample of the new season's (1937) Lofoten medicinal cod-liver oil, which has just arrived from their Norwegian principals, Messrs. Brodr. Aarsaether A/S. This oil is the usual good pale sweet quality, and fully up to standard. It is guaranteed to have a content of at least 1,000 International units of vitamin A, and 100 International units of vitamin D, and a certificate guaranteeing this vitamin content, together with the Norwegian Government Control Certificate, accompanies every shipment.

GLUCOSE-D SHOWCARDS.—Glaxo Laboratories, Ltd., Greenford, Middlesex, send us specimens of two new showcards available for chemists on application.

These cards are being included in the special bonus parcels of Glucose-D which are on offer until March 15. The cards, however, will be available after that date. We have also received a copy of a special weaning booklet which, it is stated, is written by a mothercraft expert. Farex cereal food is suggested in the booklet as the basis for the weaning diet. Supplies of this brochure will be sent free on application, and a distribution is being made to mothers of infants now reaching the weaning stage.

CALOX TOOTH POWDER.—Illustrated on this page is a hand-some new display stand which carries the two new sizes of Calox. Special bonus terms are available for window or counter display, and further details are given elsewhere.

S. MAW, SON & SONS, LTD., Aldersgate Street, London, E.C.1, inform us of the following particulars regarding their representatives. From March 1 Mr. H. Melior will take over the Eastern Midland territory in succession to Mr. J. H. Greenhalgh, who has resigned. Mr. W. E. Thomas, who represents the company in Sussex, has been indisposed for over a month, and is not likely to resume his duties for some weeks. Meanwhile, Messrs. Maw's interests in that area are in the care of Mr. C. G. Carr. Mr. Thomas asks us to thank his customers for the many kind inquiries after his health.

ACORN FOOT PASTE.—National advertising is in progress to promote the sales of Acorn foot paste issued by Gallops, 115 Earl's Court Road, London, S.W.5. Further details are given in our advertisement pages.

A CHOCOLATE LAXATIVE.—Robert Gibson & Sons, Ltd., Manchester and London, have introduced a new laxative described as Co-rex-it chocolate laxative. Each cake is issued in four divisions and contains eight grains of phenolphthalein.

CHANGE OF ADDRESS.—Thornton & Ross, Ltd., manufacturing chemists, make an announcement in this issue of their change of address, which is now Linthwaite, near Huddersfield. T. & R. products include Samaritan olive oil, Sanident denture cleaner and other branded articles. Applications from chemists for catalogues are invited.

A BONUS OFFER of thirteen to the dozen of Phyllosan closes on March 25. Chemists who have not already received details of this bonus offer and show material are invited to send a post-card to the sole distributors in Great Britain: Sangers, Ltd., 258 Euston Road, London, N.W.1. Further details are given elsewhere in this issue.

REVOLVING DISPLAY STAND.—Orel-Micro Electric, Ltd., 39-41 Berners Street, London, W.1, are advertising their Orel-Simplex turntable with a revolving base for featuring goods up to five pounds in weight on trays up to 36 ins. in diameter. The cost of operation is small, and the turntable can be fitted inside dummy packets with attention-compelling results. Chemists are invited to write for illustrated folder.

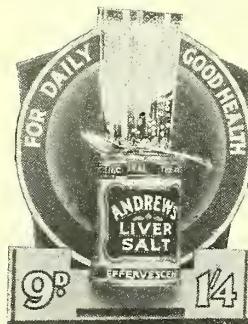
FORHAN'S DENTIFRICE.—Elsewhere in this issue a statement is made regarding the increased profit on Forhan's dentifrice, which it is stated is the original dentifrice for massaging the gums and cleansing the teeth. Two sizes are available, and there is a variety of arresting display material for chemists who make application to the sole selling agents: Stemco, Ltd., 128 Albert Street, Camden Town, London, N.W.1.

"DIETARIES FOR COMMON AILMENTS" is the title of a useful booklet which has been published by Energen Foods Co., Ltd., London, N.W.10. In view of the attention which is now being paid to nutrition, this booklet will be of interest to a large number of chemists and their customers, particularly those interested in such subjects as rheumatism, slimming, gastric troubles, indigestion and so forth. The booklet is priced 6d.

PROPAGANDA.—We have received specimens of the advertising material published by Magnus, Mabee & Reynard, 32 Cliff Street, New York, whose agents in this country are the Old Strand Chemical & Drug Co., Ltd., Audrey House, Ely Place, London, E.C. One of the publications consists of a stepped booklet outlining the nature of the products offered by Messrs. Magnus, Mabee & Reynard, and in addition there is a catalogue of prices offered.



BONUS OFFER.—Scott & Turner, Ltd., Andrews House, Newcastle-upon-Tyne, 2, announce their spring bonus scheme on another page in this issue. Intensive advertising is in progress in the Press, and a new range of showcards is available to the trade on application. A display stand is illustrated herewith. The bonus scheme ends on March 31.



three times as great as from tungsten lamps of similar wattage is claimed.

1937 CATALOGUE.—A handsome publication has been issued by Yardley & Co., Ltd., drawing attention to Yardley preparations, giving details of prices and illustrations in colour of Yardley products.

CRESCENT PREPARATIONS CO., LTD., 27 Old Bond Street, London, W.1, inform us that the Parfums Weil, of Paris, appointed them the sole agents for Great Britain in 1935, and since then an English company has been formed. Mr. W. E. C. Cowie, who is managing director and chairman of Crescent Preparations Co., is also managing director of this company. All products are manufactured and packed in France, and distributed by Messrs. Parfums Weil.

MILK ANALYSIS.—The British Drug Houses, Ltd., Graham Street, City Road, London, N.1, have issued a brochure on the phosphatase test for the detection of raw or insufficiently heated milk in pasteurised milk. Copies of this pamphlet may be obtained on request. We are informed that this test, introduced by Kay and Graham, is being used to an increasing extent. This edition of the pamphlet includes a description of a special box type comparator introduced for use in the test.

REDUCTION IN PRICES.—From March 1, reductions in prices will be made for Alka-Seltzer effervescent tablets in regard to both retail and trade prices. In addition, each pack will contain a larger number of tablets. Retailers may exchange their present stock for the new packs at any time up to March 31 next. An intensive advertising campaign will commence on this date, and chemists are asked to write for new trade price list and special display discounts. Further details may be obtained from Don S. Momand, Ltd., 10-15 Chitty Street, London, W.1.

A NEW EDITION of "Notes on the Grants to Research Workers and Students" has been published (price 2d.) by H.M. Stationery Office.

EIGHTEENTH-CENTURY BOTANIC GARDENS.—"Another direction in which the Society [the Royal Society of Arts] did good work was in promoting the establishment of botanic gardens. During the first half-century of its existence the Society either promoted or encouraged experimentation with a large variety of economic plants and crops in different parts of the Empire, and, in order to do this more effectually, the Society suggested in 1760 that land should be allotted in the Colonies for 'gardens or nurseries for the making of experiments in raising such rare and useful plants as are not the spontaneous growth of the said Colonies,' and promised that if the colonial legislatures would help to establish such gardens the Society would offer suitable premiums for economic plants raised in them. This valuable suggestion resulted in the establishment of botanic gardens in certain of the West Indian islands and we find the Society, in pursuance of its undertaking, awarding a gold medal in 1774 to Dr. George Young, Superintendent of the Botanic Garden of St. Vincent, for a detailed report on the garden, and a gold medal to his successor, Dr. Alexander Anderson, 'for the culture of cloves and cinnamon.'"—From an address by Sir Henry McMahon, chairman of Council of the Royal Society of Arts.

"C. & D." Retail Price List

THE index figure for dispensing and sale of drugs for February showed a rise unusual in the last few years—to 151.0 from 149 in January and 147.0 in February 1936. This is mainly accounted for by a sharp rise in mercurials, accompanied by various after-effects of recent increases in ergot and glycerin prices. In surgical dressings there is no change in the index figure of 137.1 (136.2 in February of last year). The important changes to be entered into the list are as follows:

Cost	d.	per	Drugs and Chemicals	Selling Price			
				16 oz. s. d.	4 oz. s. d.	1 oz. s. d.	1 dr. s. d.
108	lb.		Agar (shredded)	—	3 11	1 0	—
114	lb.		Agar pulvis	—	4 1	1 1	—
48	lb.		Copaiba	6 0	1 9	0 6	0 1
72	oz.		Ext. ergota pulvis .. S.1.(5)	—	—	10 6	1 6
180	lb.		Ext. ergota liq. '14	S.1.(5)	—	6 8	2 0
240	lb.		Ext. ergot. ammon. liq.	S.1.(6)	—	8 8	2 7
36	oz.		Ext. hydrastis liquidum ..	—	—	5 3	0 9
144	lb.		Hydarg. bisulph. (vermilion) ..	18 0	5 2	1 6	—
144	lb.		Hydarg. persulphas (alb.) ..	—	5 2	1 6	0 3
139	lb.		Hydargyrum	17 1	5 0	1 5	—
20	lb.		Lactosum	2 6	0 9	0 4	—
7	oz.		Liq. hydarg. nitr. acidus S.1.(5)	—	—	1 9	0 3
120	oz.		Ol. cinnamomi	—	—	—	2 6
27	oz.		Ol. limonis	—	—	4 0	0 7
25	oz.		Ol. limonis (Messina)	—	—	3 8	0 6
96	lb.		Tr. serpentariae	—	3 4	0 11	0 2
60	lb.		Ung. hydargyri	7 6	2 2	0 8	—
39	lb.		Ung. mercuriale ("Trooper")	5 0	1 5	0 5	—

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary and Year-Book," 1937, p. 338.

(From "The Trade Marks Journal," February 10, 1937)

- "FASPOL"; for photographic chemicals, etc. (1). By I. C. I. (Fertilizer and Synthetic Products, Ltd.), Imperial Chemical House, Millbank, London, S.W.1. 574,340.
- "KAM-FUR-LAN"; for camphor ointment for fur-coated animals (2). By Kam-Fur-Lan Manufacturing Co., Ltd., Brighton Road, Shoreham-By-Sea. 572,100.
- "FLOREAT"; for fertilizer (2). By B. H. L. Godfrey, Manor House, Woodchester, Gloucester. 574,328.
- "DECOMOL"; for ointment, etc. (3). By R. Sumner & Co., Ltd., 40 Hanover Street, Liverpool. 571,047. (Associated.)
- "KORSANA"; for tonic medicines (3). By Smith & Co., 132 Borough London, S.E.1. 571,530.
- "CEFTAMIN"; for medicated preparations with vitamin C (3). By Greenosan, Ltd., Mile End, Colchester. 573,029.
- "TILLICUM"; for medicated preparations for corns (3). By B. S. Westbury & C. Robertson, 2 Garrick Street, London, W.C.2. 573,729.
- "CAFFOCARDONE"; for medicinal chemicals (3). By W. Mallard & Co., Ltd., 45 Mallard Street, London, E.9. 574,149.
- "PERVENAL"; for medicinal chemicals (3), for perfumery (48). By Pervernal Products, Ltd., 67 Wigmore Street, London, W.1. 574,214/215. (Associated.)
- "LACTOMARIS"; for medicinal chemicals (3). By Lacfer, Ltd., 20 Copthall Avenue, London, E.C.2. 574,283.
- "BOLDOLAXINE"; for medicated laxatives (3). By Laboratoire Emile Charpentier, 7 Rue du Bois-de-Boulogne, Paris (16e). 574,260.
- "DUOLIM"; for medicinal chemicals (3). By International Chemical Co., Ltd., Braydon Road, London, N.16. 574,274.
- "BRO-STRONT"; for all goods (3). By Dr. R. & Dr. O. Weil, 11-13 Grunestrasse, Frankfurt/Main, Germany. 574,337.
- "AGNI"; for medicinal chemicals (3). By Exe Valley Chemists, Ltd., 11 Cowick Street, Exeter. 574,353.

Marriages

BULL—BURRELL.—At St. Mary's Church, Hendon, N.W., on February 20, Frederick George Bull, M.P.S., to Irene P. Burrell.

JONES—HYSLOP.—At the British Consulate, Rio de Janeiro, Brazil, on February 5, Peter Jones, M.P.S., to Janet C. Hyslop, M.B., Ch.B.

Deaths

BENNIE.—At The Grange, Comphall, Polmont, on February 25, Mr. John Wood Bennie, chemist and druggist, aged sixty-seven. Mr. Bennie was a native of Wallacetown, Polmont, and for some time carried on business at Falkirk. About thirty years ago he purchased a pharmacy at Polmont. He is survived by a widow.

BOWMAN.—On February 27, her sixty-ninth birthday, Mary Grace, beloved wife of Mr. William Powell Bowman (of Goodall, Backhouse & Co., Lt1.), Leafield, Moortown, Leeds.

ELLIOTT.—At 5 Queen's Road, Evesham, on February 9, Mr. Henry Alfred Elliott, retired chemist and druggist, aged seventy-six.

LAMB.—At 174 High Street, Montrose, on February 25, Miss Isabella Jane Lamb, chemist and druggist. Miss Lamb was a partner in the firm of G. & I. Lamb, trading as Alexander Davidson.

LINCOLN.—At Norwich, on February 25, Mr. Nathaniel Lincoln, retired chemist and druggist, aged ninety-one. Mr. Lincoln established a business in Rupert Street, Norwich, nearly sixty years ago. The business is now conducted by one of his grandsons. He was keenly interested in music, and sang in the chorus of Norfolk and Norwich Musical Festival for a long period.

THOMSON.—At Cairnlea, Penicuik, Midlothian, on February 28, Mr. John Paterson Thomson, J.P., M.P.S. Mr. Thomson, who qualified in 1887, carried on business at Penicuik for a long period. He was a well-known freemason.

WHITTAKER.—At a Manchester nursing home, on February 20, Mr. Frank Whittaker, chemist and druggist, 4 Anchorsholme Lane, Cleveleys, aged sixty-one. Mr. Whittaker had been in business in St. Helens for the past twenty years. He is survived by a widow and a daughter, Miss Edith Whittaker, M.P.S.

Business Changes

MR. JAMES CARRUTHERS, Ph.C., formerly of 40 High Street, Dunfermline, is now in business at 136 Bruntsfield Place, Edinburgh.

THE telephone number of Thomas Morson & Sons, Ltd., Summerfield Chemical Works, Ponders End, Middlesex, has been changed to Howard 2011.

MR. R. C. GRENFELL, chemist and druggist, has purchased the business of Mr. A. E. King, chemist and druggist, 22 Warminster Road, Westbury, Wilts.

MR. JAMES R. MACGREGOR, chemist and druggist, has purchased the business of Mr. Gordon Smart, chemist and druggist, 41 Princes Street, Ardrossan, Ayrshire.

The business of the H. C. Edwards Co (manufacturers' agents) has been transferred to more commodious premises at 7c Lower Belgrave Street, London, S.W.1. Telephone: Sloane 7026.

OWING to a clearance scheme in Westgate, Mansfield, the pharmacy carried on under the name of Arthur Bell will shortly be removed to new premises to be erected in Regent Street.

JAMES WOOLLEY, SONS & CO., LTD., Victoria Bridge, Manchester, have taken over the business of J. C. Arnfield & Sons, Ltd., Princes Street, Stockport, as from January 1, 1937. Mr. T. O. Arnfield, Ph.C., has retired.

Personalities

MR. FRANK G. DAVIS, M.P.S., New Malden, Surrey, who occupied the chair at the Thames Valley Association's dinner on February 24, servide his apprenticeship with Mr. J. Meakin, Evesham, which was followed by a spell of active service in France. On being demobilised he studied at the Birmingham School of Pharmacy, passing the Pharmaceutical Society's Qualifying examination in 1921. For some time he was with Mr. A. B. Martin, Loughborough, and gained further experience with Mr. S. Lane, Hove. Mr. Davis subsequently purchased a business at New Malden, where he is in partnership with his brother, Mr. C. Davis; they have made a speciality of optical work and photography. Always a busy man, Mr. Frank Davis is a Rotarian and vice-chairman of the local chamber of commerce.



MR. F. G. DAVIS

THE Grand Committee of the United Kingdom Commercial Travellers' Benefit Society entertained Mr. H. W. Harrie (C. R. Harker, Stagg & Morgan, Ltd.), the hon. treasurer of the Society, to luncheon at the Berners Hotel on February 27. The chairman, Mr. McIntyre, in proposing the toast of their guest, said, "I have much pleasure in placing on record the appreciation of the whole Society of the services rendered by Mr. H. W. Harrie as treasurer upon his retirement under the rules. The constant attendance and valuable services so freely given have in a very large measure contributed to the success of the Society, and it is the sincere hope of all of us that he may enjoy many years of good health and happiness." He then presented Mr. Harrie with an oak writing desk, a set of carvers and an address of appreciation from the members of the Committee, and on behalf of the Society with a cheque for one hundred guineas. Mr. Harrie, in reply, said he had been a member of the Society for thirty years, and had only once made a sick claim for one week. He had been treasurer of the Society for nine years, had served on the London office management committee for eighteen years, and had seen the members' accumulated balances grow from a few thousands to their present magnificent total of £1,030,000. The apportionment for 1936 will again be £1 10s. 6d. per share with interest at 4*1* per cent.

Coming Events

Tuesday, March 9

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, London, W.C.1, at 8.30 p.m. Dr. W. H. Hatfield, F.R.S., on "The Uses of Stainless Steel for Pharmaceutical Apparatus."

South-East London Chemists' Association, Plough Hall, Lewisham, S.E., at 8.45 p.m. Business discussion opened by Mr. E. Oswald Wells.

Thames Valley District Pharmacists' Association and Branch, Three Fishes Hotel, Kingston-on-Thames, at 8.45 p.m. Miss H. M. Bruce, B.Sc. (Vitamin Department, Pharmaceutical Society), on "Vitamins from a Pharmaceutical Viewpoint." Illustrated.

National Pharmaceutical Union, Leeds Branch. Reports on N.P.U. and (by Mr. N. N. Armitage) P.A.T.A.

Wednesday, March 10

National Pharmaceutical Union, Devan Branch, Rougemont Hotel, Exeter, at 3.30 p.m. Mr. W. W. Atkinson (a member of the central Executive) on "Current Pharmaceutical Topics."

Birmingham Pharmaceutical Association and Branch, Botanical Gardens, Edgbaston, from 8 p.m. to 1 a.m. (with extended licence). Dance, Spot prize and competition dances. Late buses. Tickets 3s. 6d. each.

Pharmaceutical Society, Glasgow and South-Western Scottish Branch, Gordon Restaurant, 19 Gordon Street, Glasgow, at 8 p.m. Meeting. Chairman's address by Mr. A. B. Gilmour.

Thursday, March 11

National Association of Women Pharmacists, 17 Bloomsbury Square, W.C.1, at 8 p.m. Film: "International Women's Week in Budapest."

London Chemists' Galting Society, Trocadero Restaurant, Piccadilly, at 6.30 for 7 p.m. Annual dinner and dance. Dancing till 1 a.m. Tickets 12s. 6d. each.

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S3

THE CHEMIST AND DRUGGIST

VOL. CXXVI.

March 6, 1937

NO. 2978

This Unjust Report

THE Select Committee on Medicine Stamp Duties appointed to consider and make recommendations for the alterations of duties in regard to the Medicine Stamp Acts issued their report on February 26. This report perhaps presents the most devastating views on the position of pharmacists in this country which have ever been formulated. It may indeed be said that the ex-grocer and the representative of the bazaar have been successful in minimising the importance of the pharmacist to a degree which has never before been reached. In short, the retail chemist to-day, if this report is accepted in its entirety, loses any claim which he may have in respect of his special training, his acquirement of knowledge and the successful negotiation of examinations held by the Pharmaceutical Society. While this report is obviously not a legal document, it is important, in the interests of justice to the chemist, that if an alleged quotation is made from a budget resolution, it should in fact be correct. In the second paragraph of the report the following statement is made with regard to the imposition of duties in respect of medicines :

" It was imposed on ' all persons who sold medicines and who were not regularly bred to the profession of doctors, apothecaries, etc.' and secondly, a duty was ' laid on the medicines ' themselves when sold by such persons. "

We should like to place on record the fact that this alleged quotation is incorrect. The wording in the House of Commons resolution of May 27, 1783, voting the duties was as follows :

" all persons (except such persons as have served a regular apprenticeship to any surgeon, apothecary, druggist, or chymist) "

When the resolution was incorporated in an Act of the same year (23 George III, c. 62) the wording was virtually identical, but a concession was added in favour of persons who had kept a shop for three years before the passing of the Act. This concession was withdrawn in 1785.

Even to the most casual reader of the evidence which was given in THE CHEMIST AND DRUGGIST it seemed as if this inquiry was not so much an inquiry as a prosecution of the pharmacist who dared to suggest that as a result of his education he was more entitled to handle drugs than was the girl employed by what in America is described as a " dime store. "

A second inaccuracy in the report is to be seen on p. 7, paragraph 8 (second half), in which the statement is made : " Following a further judicial decision . . . "; this should read : " Preceding . . . " It is to be admitted that a Committee of individuals who are acting without any special knowledge is almost bound to perpetrate errors in a report of this nature which on the face of it is apparently to discredit the chemists' qualifications for handling drugs, admitting at the same time that the object of changing the present chaotic system of medicine stamp duty is essential in the interests of obtaining further revenue.

When we come to the question of considering the position of the registered pharmacist—or of the chemist as

he is better known to the purchasing public despite every attempt to deprive him of his ancient title—we find certain astounding reflections which have presumably been formulated after hearing the evidence of pharmaceutical officials. The statement is made that the Committee recognises that the registered chemist already has certain advantages, e.g., under the Dangerous Drugs Acts, the Pharmacy and Poisons Acts and the Health Insurance Acts, and they feel that the present system of destamping should not be continued and that all dutiable remedies should be sold on equal terms by chemists and non-chemists. Surely an opportunity was given to the accredited representatives of pharmacy, professional and trade, emphatically to state that the retail chemist to-day had no advantages whatsoever in regard to carrying out the duties placed upon him by the Acts in question. Consider first of all the Dangerous Drugs Acts : the retail chemist dare not undertake the sale of " dangerous " drugs except under very stringent rules and regulations without incurring the most savage penalties, short perhaps of those for blackmail and murder, which the laws of this country can impose. It is true that he is recognised as the one person (doctors, dentists and veterinary surgeons being excluded) who can hand over " dangerous " drugs to the community ; but it is surely a subject for gargantuan laughter to suggest that his so-called monopoly in " dangerous " drugs is a profitable undertaking for one who has served an apprenticeship, spent time and money in qualifying and has to pay an annual fee for himself and his premises. The same applies to the Pharmacy and Poisons Act, 1933. It is equally true in regard to the stipulations of this Act that a chemist is permitted to sell certain substances which cannot be sold by other traders ; yet it would be difficult to believe that even 10 per cent. of the modern retail chemist's turnover was credited to drugs which, under the Pharmacy and Poisons Act, he alone can sell. The question of any advantage accruing to National Health Insurance Act dispensing should have afforded a representative of pharmacy an opportunity for explaining that the scheme as at present administered was undoubtedly one of the most fantastic methods followed in commerce at the present time. Apparently no advantage was taken of the opportunity to explain that the chemist carried on Insurance Act dispensing, not because it is profitable but because it gives him the one opportunity of exercising his skill in carrying out operations for which he was trained. There are many chemists throughout the country who refuse to have anything to do with National Health Insurance dispensing. Unfortunately, however, these men have no spokesman, and they are perfectly allowed to carry on as retailers of packed goods and not dispensers of medicine, to do which they served an apprenticeship, passed examinations and paid fees.

The contemptuous expression of opinion in regard to the value of a registered pharmacist on premises where there are large sales of ready-packed medicine is indicative of the view which is apparently held concerning chemists by the uninformed members of the public. The precise statement is as follows :

" There was considerable divergence of evidence regarding the additional safeguard to the public which is provided by the presence of a registered pharmacist on premises where there are large sales of ready packed medicines. Your Committee, however, take the view that this protection is in many cases illusory, and they are, therefore, not prepared to put the value of such a safeguard very high."

If, after reading this report, there are pharmacists left who imagine that pharmacy to-day is a profession and not a trade, they are assuredly bound to be disappointed. As has already been stated, the object of the Committee was to discover methods of obtaining additional revenue to the State. To this no one can object; but the effect of this report when translated into legal form will have repercussions on the trade which at this stage are difficult to estimate. Undoubtedly, the legislation which presumably will follow this report will be the most important in regard to pharmacy since the 1868 Act. The Pharmaceutical Society cannot expect to attract members of the oncoming generation to a profession which is in official quarters looked upon as non-existent and a trade which is in fierce competition with other trades whose members are not required to undergo the laborious duties demanded of pharmacists. The Retail Pharmacists' Union is likely to find it more difficult to obtain friends for chemists, since any huckster can under the suggested conditions supply most types of packed goods. The Proprietary Articles Trade Association, founded by Sir William Glyn-Jones to stop the ruinous competition in regard to the cutting of prices, will have its difficulties in obtaining support from retail chemists, who may well express the view that since their subscriptions do not refer to the control of retail sales by chemists alone it is hardly essential for them to continue. The effect of this report on the trade in medicines will be revolutionary. Retailers as well as packed goods manufacturers will be faced with new and formidable problems. In fact, the future of pharmacy in all its branches is at stake.

British Trade with Canada

THE Trade Agreement between Canada and this country, which was signed in Ottawa last month, and particulars of which have been published by the Stationery Office this week, is not likely to mark a new and improved era of sales of British made goods to our western Dominion, at least, not so far as chemicals and allied products are concerned. Some slight reductions in the rates of import duty on goods produced in and consigned from this country, ranging from $2\frac{1}{2}$ per cent. to, in a few instances, 10 per cent. *ad valorem*, have been secured (a summary of the main amendments is given on p. 290), but, in general, the policy of the Canadian authorities not to permit our manufactured goods to become anything approaching seriously competitive in Canada to their own manufactures is still very evident. The rates of duty under the new Agreement, which will replace the present Ottawa Agreements Act, 1932, on British chemicals, etc., are still in the nature of a prohibition of imports, where there is production of similar products in Canada. Where the products are non-competitive the margin of preference to be given to British goods has, in some instances, been slightly increased, but even in this category, there appears to be but few cases of practical benefit. It is feared that the United States of America will continue as the predominant supplier of Canada's chemical requirements. Perhaps the most important item in the new Agreement is Article 12. This deals with the sale of Canadian produced goods in this country (which includes some chemical products) and provides that where such goods are sold to this country at less than the comparable selling price in Canada, the British authorities shall be entitled to notify the Canadian authorities of the facts, and to claim exemption from special or dumping duty

ordinarily imposed on similar British goods entering Canada. The Article in question is extremely complicated and its operation, if and when needed, is likely to be too long delayed to be of practical service. From the Canadian point of view the Agreement must be considered highly satisfactory, for it provides, under Article I, that goods grown, produced or manufactured in Canada which are now free of duty, shall continue to enjoy entry free of customs duty into the United Kingdom. During 1936 we imported from Canada goods of all descriptions to the value of £75,048,299, while the value of our shipments to Canada totalled only £23,255,690, leaving us with a debit balance of no less than £51,792,609. In 1934, Canada imported chemicals to the value of \$28,149,000, of which we supplied only \$6,164,000 and America \$16,575,000, and her imports of all classes of merchandise totalled \$513,469,000, with American goods valued \$293,779,000 and British goods only \$113,418,000. Every possible facility is given for the sale of Canadian goods in this country. We have shut out foreign competition and, in doing so, we have lost trade to those countries. We have jeopardised our own farming industries which, solely on account of Dominion competition, have had to be assisted at the taxpayers' expense. Inter-Empire trade may be a sound policy, but we should like to see it developed on a little more equitable basis.

Physical Training for Everyone

THE Government memorandum issued with the title "Physical Training and Recreation" (Cmd. 5364: H.M. Stationery Office, 2d.) merits full consideration by responsible citizens. There is no doubt that many middle-aged and elderly people, especially those in the ranks of so exacting a vocation as pharmacy, are physically uneducated, with the result that when illness overtakes them they are handicapped by their general condition. About a year ago the Board of Education and the Scottish Education Department issued circulars raising the question of the nature of adequate physical training and the best ways of attaining it. Consideration of the replies has led to certain conclusions which are indicated in the pamphlet. The Government wishes to make use of existing agencies, believing that a uniform scheme operated by the State might, by reason of its uniformity, fail to attract. The principal proposals are to set up immediately two National Advisory Councils; to appoint two Grants Committees; to organise local committees; to make grants in aid of approved projects; to establish a Central Council (comprising representatives of more than 100 organisations); and to provide and maintain a National College of Physical Training. Legislation will be necessary in order to give full effect to the scheme. The Government considers that capital grants amounting to about £2,000,000, spread over three years, will be required, with additional annual charges amounting to £150,000. In this age of heavy public expenditure such amounts may well seem relatively trifling; and it may be remembered that some of our most far-seeing publicists were advocating systematic physical training before the present scheme was initiated. The headquarters of the Council is at Queen Anne's Chambers, Tothill Street, London, S.W.1, and the secretary is Captain L. F. Ellis.

TWO UNILEVER PAMPHLETS.—Handsomely printed and illustrated, a pamphlet entitled "What is Margarine?" sets forth particulars of the manufacture of margarine by Unilever, Ltd., and of its food value. A companion pamphlet bears the title "Why the Nation Needs More Fats," and includes opinions by medical and scientific authorities.

HARDER THAN PRESCRIPTION PROBLEMS.—"The great advantages of the Symbolic Script, as compared with Esperanto, are in its brevity and its universality. If as in Mr. Dutton's scheme, *v a san aq & bril, b mo C Ob v pn bi* are sufficient symbols for 'you have wholesome water and sunshine, but without these things you cannot live,' then Symbolic scores in a busy world."—Dr. F. W. G. Foat in "The Journal of the Royal Society of Arts."

Practical Papers in Edinburgh

PAPERS on three subjects were submitted at the fourth meeting of the present session of the North British Branch of the Pharmaceutical Society, held at 36 York Place, Edinburgh, on February 19, Mr. F. W. M. Bennett (chairman of the North British Executive) presiding.

THE CHAIRMAN said he regretted to have to mention the death of Mr. Anthony McMillan of Glasgow, who was well known in pharmaceutical circles. For many years he had been a member of the Executive of the North British Branch, and was chairman in 1923 and 1924.

The first communication was:—

Note on Weak Solution of Iodine, B.P.

By H. W. BLAIR, M.P.S.

[ABSTRACT]

ATTENTION was directed to what seemed an excess of iodine in the official weak solution of iodine. It arose in connexion with the following prescription: Tinct. iodi. 3iij; aq. ad 5vij. Shortly after dispensing it was noticed that there was a precipitate which consisted of iodine, and excess of iodine or deficiency of potassium iodide in the solution of iodine was suspected. Both ingredients, however, were found to be within the official limits. The following experiments were made:—

(a) The bottle was filled nearly full with distilled water and the suspected tincture of iodine added and the mixture made up to volume with distilled water. In this way a clear solution was obtained.

(b) The experiment was repeated, using weak solution of iodine from the ordinary stock. The result was the same as in (a).

(c) The experiment was repeated with the suspected tincture of iodine but putting the 3iij of tincture into the bottle first and filling up with distilled water. The result was a muddy brown mixture with separation of solid iodine.

(d) A fourth experiment was made, using tincture of iodine, B.P., 1914. This gave a clear solution with no evidence of any deposit after standing for ten days.

Within less than an hour (a) and (b) showed a deposit of solid iodine, and (c), which had cleared up, showed a larger deposit of iodine than (a) or (b).

The reason why (d) remained clear was because of the higher content of potassium iodide, 2.5 per cent. in the 1914 B.P. tincture of iodine, as compared with 1.5 per cent. in the 1932 B.P. weak solution of iodine. It is suggested that the objection indicated in this note would be obviated by increasing the potassium iodide content to 20 grams in place of 15 per 1,000 mils. This would give practically the same proportion as in the tincture of iodine of the United States Pharmacopœia.

Discussion

MR. RUTHERFORD HILL said one important point brought out by Mr. Blair was that if the tincture of iodine was added to the whole of the water there was a clear solution and only on standing some time was there any precipitation of iodine. This suggested a danger against which to guard.

DR. TAIT said he thought Mr. Blair was quite right in suggesting an increase in the proportion of potassium iodide so as to have the iodine in solution. Patients were very apt to take notice of these things, and not infrequently when such a thing happened they went, not to the chemist, but to the doctor, asking why some change had taken place. The doctor might not always be able to give the real explanation.

The next communication was:—

Note on the Sealing of Gelatin Capsules

By S. J. STARKEY

[ABSTRACT]

In dispensing small numbers of soft gelatin capsules, it is customary to seal the capsules with the aid of a hot spatula or glass rod. This method is not entirely satisfactory. The following method has been adopted. Steam is generated from an apparatus consisting essentially of a test-tube which delivers a fine jet of steam through a bent tube. The capsule is held in the steam within the area of dryness. A rapid seal is effected, which is neat, strong and free from trace of charring. A

flat oil can, such as is supplied with cycles and sewing machines, may be used as an alternative.

The next communication was:—

Colouring Matters of the British Pharmaceutical Codex, 1934

By E. G. BRYANT, PH.C., B.Sc. (LOND.), PH.D. (NANCY)

[ABSTRACT]

IN the discussion which followed a former communication on this subject, it was suggested that some attention might be paid to the "spot" test used in the evaluation of colouring materials. The following notes are designed to throw some light upon the question, and must be regarded as a contribution to what is proving to be a most interesting and complex problem.

If a strip of bibulous paper be suspended vertically with its end dipping into a liquid, the latter rises up the strip to a height which is constant for the same liquid and for the same kind of paper. This is due to capillary action, and the law of capillary action is expressed:—

$$h = \frac{2T}{rgs}$$

Where h = height of liquid; T = surface tension of liquid; r = radius of capillary; g = gravity constant; s = density of liquid.

In the case of bibulous paper it is impossible to evaluate r , for the capillaries are, possibly, not uniform in diameter, and certainly not regular in length, and, of course, we are dealing, not with one capillary, but many. If, however, we are comparing the behaviour of two or more liquids valuable conclusions can be drawn from the expression. The comparison is carried out by suspending two strips of blotting-paper, of equal length and width, from the arms of a double burette stand, and lowering them so that they dip into two beakers containing the liquids under examination, the level of the two liquids being the same. The ends are left immersed until no further rise is observed. The strips are then dried and heights measured. The high-water mark is quite clearly defined. In comparing the behaviour of alcoholic and aqueous solutions of cochineal the following results were obtained:—

—	S.g.	Surface tension dynes/cm.	Observed height	Calculated height
Alcoholic sol.	0.939	29	3.5 c.m.	2.5 c.m.
Aqueous sol.	1.008	39	3.1 c.m.	3.1 c.m.

There is a considerable discrepancy between the observed and the calculated ratios. This can be accounted for by adsorption of the liquid by the cellulose of the blotting-paper, and adsorption retards the rise of the liquid. Possibly, in aqueous solution, association of the molecules of the solutes occurs, with the result that they may exert greater adsorption. Adsorption is a concentration of molecules at the interfaces of two substances, of which one is a solid, and the other either a liquid, a solution or a solid. The chief factors which influence the degree of adsorption are (a) the nature of the adsorbent and of the adsorbate, (b) the specific surface of the adsorbent, that is to say, the ratio between the total surface area of the substance and its total volume, which increases with the degree of comminution, (c) concentration of the adsorbate, and (d) electrical charges on the phases.

In order to gain some information as to the behaviour of some pharmaceutical dyestuffs on adsorption, the following



DR. E. G. BRYANT

experiments were carried out. Into six flasks was introduced 15 mils of the solution of the dyestuff. To each of five of the flasks was added an equal quantity of animal charcoal, in the first series, and of kieselguhr in the second, and the volume in each of the six flasks adjusted to 30 mils with distilled water. The flasks were well shaken and, at intervals of half an hour, the liquids were filtered and examined in the tintometer. The following changes were observed:—

ANIMAL CHARCOAL						
—	Standard	½ hour	1 hour	1½ hour	2 hours	2½ hours
Amaranth	29.0 R	0.8 R	0.3 R	6.0 R	9.2 R	9.2 R
Bordeaux B	20.0 R	0.5 R	0.5 R	0.5 R	0.7 R	0.9 R
Cochineal	1.0 B					
	6.0 R	2.0 R	1.0 R	0.6 R	1.0 R	
	9.9 Y		0.4 Y	0.5 Y	0.8 Y	
Cudbear ...	20.0 R	0.3 B	0	0	0	
Tartrazine	1.0 B					
	23.0 Y	23.0 Y	23.0 Y	23.0 Y	23.0 Y	

KIESELGUHR						
—	Standard	½ hour	1 hour	1½ hour	2 hours	2½ hours
Amaranth	29.0 R			No change		
Bordeaux B	20.0 R			No change		
Cochineal	6.0 R	5.0 R				
	9.9 Y	3.0 Y		No change		
		2.0 B				
Cudbear ...	20.0 R	16.0 R			No change	
	1.0 B	4.0 B				
Tartrazine	23.0 Y	8.0 R		No change		

It will be seen that animal charcoal has a curious effect upon cochineal, and to a lesser extent upon Bordeaux B, in that adsorption reaches a maximum at the end of about one hour. Thereafter the process not only ceases but there is a certain degree of colour recovery. No change occurs in tartrazine either with animal charcoal or with kieselguhr. The effect of kieselguhr upon cochineal is interesting in another respect. On adsorption the red components are adsorbed, leaving a fluorescent bluish constituent. The latter is, by the way, a very sensitive indicator, turning a fine purple with ammonia, and yellow with acids.

Reverting to the strip tests, it will be seen that the indications are that there are three components of cochineal. The first is the blue substance referred to, the second a pale pink, and the third, a brick red substance, which may prove to be a mixture. They are marked A, B and C respectively on the strip. They appear to have different co-efficients of adsorption, and are therefore carried to different levels on the paper. Having this in mind, a preliminary experiment was carried out to discover if it is possible to separate the components by fractional adsorption. The results are suggestive, but, as yet, by no means conclusive. For these preliminary observations, adsorbents such as are used in pharmacy were employed, with the following results:—

Adsorbent	Immediate	After one half-hour	
		Deposit	Liquid
Calcium carbonate (precipitated) ...	Rose pink	Grayish	Pale magenta
Chalk (prepared) ...	Rose pink	Purple	Rose pink
Magnesium carbonate ...	Vivid purple	Deep purple	Rose red
Bismuth carbonate ...	Bluish	Bluish	Colourless
Bismuth carbonate	Magenta	Bluish	Pale pink
Magnes. carbonate			
Bismuth carbonate	Rose pink	Pale pink	Deep pink
Magnes. carbonate			
Sod. bicarbonate			

In comparing the results of the last two observations, it will be seen that the addition of sodium bicarbonate completely changes the behaviour of the mixture, a point to be borne in mind in devising a formula for a bismuth-magnesia mixture.

In the strip tests, the varying coefficients of adsorption are evidenced in the varying degrees of opposition the components offer to capillary attraction, and, hence, are sorted out as they ascend the paper. They rise in the following order: (1) The brick-red component (C). (2) The pink component (B). (3) The blue constituent (A). (4) The nearly pure solvent (D). Whilst the band D is seen by the naked eye to be nearly pure solvent, examination by filtered ultra-violet rays shows it to be strongly fluorescent, and, possibly, there may be still a fourth substance present. The action of acids and alkali upon the three components is shown:—

—	Acetic acid	Ammonia
Component A ...	Yellow	Blue
B ...	No change	No change
” C ...	No change	Deep blue

Whilst solution of Bordeaux B., B.P.C., remains quite clear on keeping for a year, it is found that a solution of amaranth, of like strength, and with the same menstruum, and compound solution of tartrazine have developed moulds. These have been identified as *Penicillium* in the last named, and a mixture of *Penicillium* and *Cladosporium* in the amaranth solution. For this information the author is indebted to Mr. E. J. Moore, M.Sc. It has been found that four of the samples which had been shown at the time of the previous communication had been lying in a closed box, and on examining them something of considerable interest was found. They were examples of syrup glycerophosph. co., B.P.C., one coloured with Bordeaux B and the other coloured with amaranth. The samples which contained the full content, including iron, had retained the full colour and remained perfectly clear. Samples of each prepared without the iron had both undergone considerable change. The colour had faded slightly and there was an abundant precipitation with some indication of a fungoid growth and crystallisation, possibly due to bacterial infection.

Discussion

MR. HEADING asked whether the degree of adsorption of colouring matters on to substances like charcoal and kieselguhr might not be largely dependent on the molecular weight of the dye concerned.

MR. BEATTIE said he gathered that the samples of the two syrups to which Dr. Bryant referred had been stored in the dark. He was quite sure that had they been exposed to light he would not have got the same results as to stability of the colour. He was interested in Dr. Bryant's reference to the possibility of bacterial infection. Some time ago Morson had stated that in working on glycerophosphates they had suspected the possibility of bacterial infection. It might be that the precipitation in the samples shown was due to bacterial infection, and it was a remarkable fact that apparently the presence of iron had inhibited any such action. He thought also it was rather remarkable that in the case of adsorption of dyestuffs by charcoal the colour should return after a lapse of time.

MR. RUTHERFORD HILL said it had occurred to him in connexion with the separation of the three dyestuffs in cochineal that it might be possible to isolate these dyes and determine their chemical constitution. In that way they would be independent of cochineal as a source of dyestuffs. They might also find that they would have useful indicators.

DR. BRYANT, replying, said there was no doubt that the molecular weight did influence the adsorption, but the molecular weight of these substances was not yet known. The preliminary observations which he had made might lead up to a separation of these colouring substances, and he meant to try if this could be done. With regard to the recovery of tinctorial power on standing, he had found great variation in the ash percentage of different samples of animal charcoal. Some gave as much as 55 per cent. of ash with a considerable quantity of iron, and that might have an influence. With regard to the question of diluents, he had not found any. The substances appeared to be pure Bordeaux B and amaranth. With regard to the four samples of syrup of glycerophosphates, all of them had been made up from the same stock and bottled under the same conditions. It did seem that the iron had an inhibiting effect on the crystallisation and development of bacteria.

Treatment of a Wart

(Concluded from THE CHEMIST AND DRUGGIST, February 27, p. 246)

CASE FOR THE DEFENDANT

Mr. Carson, opening the case for the defence, submitted that whatever happened as the result of using this wart cure was due to the gross negligence of the plaintiff herself. He did not suggest that the plaintiff had not received very unpleasant if not serious injuries, but it was a very much more serious matter for the defendant, because his good name and reputation were at stake. The defendant had been carrying on business in Camden Street for a considerable time, and was qualified over twenty years. In the practice of his profession he had been in the habit, as other chemists were, of selling different sorts of wart cures. While he (counsel) had the greatest respect for the medical profession he would be very slow to adopt the view expressed by Dr. O'Connell that anybody with a wart should go to a doctor or surgeon. That would be a useless waste of the doctor's time. In Dublin, and all over the Free State, warts were being removed by the application of a wart cure similar to that sold to the plaintiff. Provided reasonable precautions were used there was not the slightest danger in using this remedy. In this instance he submitted that the liquid was put on carelessly by the girl, with the result that it got into the skin. No indication was given to the chemist until six months later that the plaintiff suffered any injury. How, counsel asked, could a chemist protect himself in such circumstances? If the girl had come back, say, a fortnight after the liquid was sold, the assistant who made the sale could be identified, and evidence given of the instructions given at the time of the sale.

Mr. Philip Brady, Ph.C., replying to Mr. Murnane, said he was in business twenty-six years, and running his own establishment for fourteen years. During all that time he had sold wart preparations and never had a complaint before. He sold a number of preparations for removing warts. Nitric acid was considered the thing for burning off warts. The addition of the acetic acid made it a bit weaker. This preparation should be applied with the end of a match or a thin piece of wood. One drop was put on the top of the wart. It could not cause injury unless used very carelessly. He agreed it would be careless to apply this paint with a cork, or to pour it over the finger. The record in his cash register showed a sale of wart paint for 6d. on the date in question.

Cross-examined by Mr. Kingsmill Moore, the defendant said he could not say if the plaintiff bought the wart paint from him, but he admitted a bottle of the paint was sold that day. Counsel: Do you agree with Dr. O'Connell that salicylic acid is not as corrosive as nitric acid?—It isn't as corrosive. Did you ever hear of very serious burns being caused by nitric acid coming into contact with the skin?—Yes. Did you ever hear of glacial acetic acid causing serious burns?—Not so much as nitric. Do you agree that of all the substances you sell for this purpose this preparation of nitric and acetic acid is the most corrosive and dangerous?—It is the most corrosive, but not the most dangerous if properly used. Isn't the word "paint" a very misleading term if it is not to be painted on with a brush?—We gave instructions how to use it. Assuming no instructions were given isn't the expression "wart paint" misleading?—I don't think so. It would be wrong to paint it on with a brush, or cork?—Yes. Do you agree that if this substance gets outside the warts it is dangerous and destroys tissue?—I have seen it get outside the wart, and it did not destroy tissue, but stained the skin.

Mr. Bernard Daly, an assistant in the employment of the defendant, said he remembered selling the wart paint on October 7 last. He sold it to a girl dressed in black who was taller than the plaintiff. He told the person to whom he sold it to put on the paint with the end of a match once a day. Witness had never seen the person to whom he made that sale since. Cross-examined by Mr. Dockrell, he said the paint he sold was from a stock bottle, and was made up of nitric and acetic acids. It would not do any harm unless a person poured it over the finger. Mr. Dockrell: Do you say it would do no harm even if it were dabbed on the skin with a cork?—Not unless there was something wrong with the skin. But supposing there was nothing wrong with the skin?—It would be quite safe. You

didn't consider it necessary to warn this girl that if the paint got on the skin it might destroy the tissue?—Well, I did. But you didn't warn this girl?—I might have. I can't tell you the exact words that passed between us.

Dr. W. Cremen, replying to questions by Mr. Murnane, said he was aware that a mixture of nitric and acetic acids was used for removing warts, but pure nitric acid—and the strongest type of nitric acid—was the preparation generally used. Glacial acetic acid was less strong than nitric acid, and the mixture of it with nitric acid toned down the strength of the nitric. Mr. Murnane: Is this preparation of glacial acetic and nitric acid dangerous?—If wrongly applied. But if properly applied?—It is quite safe, and is used every day. Evidence was given here of directions having been given to apply the preparation with the end of a match. Do you agree with that method of applying it?—Yes, that would be the most convenient. Would a cork not be a proper method?—Oh, no. The witness added that he deduced from Dr. O'Connell's evidence that an excessive amount of the liquid was applied to the skin of the plaintiff. Cross-examined by Mr. Dockrell, he agreed that this preparation burned the girl's finger down to the bone.—Mr. Dockrell: Do you suggest that amputation was not necessary?—No. Or that the treatment at Vincent's was wrong in any way?—I do not. You agree that Mr. Brady is a chemist of standing?—Yes. If he said it would be dangerous not to warn people that this liquid would burn the tissues if put on the skin would you agree with that?—Yes. Even if applied with a match and some of it got on the skin it would cause burning?—It would be very localised.

VERDICT

Mr. Justice Maguire, summing up, said he thought it was generally accepted that the wart paint in question was a most dangerous substance if carelessly applied, and that to put such a substance into the hands of any person without proper instructions would be a most careless action.

The jury found that the defendant supplied to the plaintiff a chemical preparation for the removal of warts; that the plaintiff's injuries were caused by this preparation; and that there was negligence on the part of the defendant, but no negligence on the part of the plaintiff. They assessed damages at £155. Mr. Justice Maguire gave judgment for this amount, with costs.

Corner for Students

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 28 Essex Street, London, W.C.2."

QUALITATIVE ANALYSIS

The fifth exercise in the current analytical tournament will consist of a mixture of not more than three salts. General particulars relating to this exercise are exactly on the lines of the opening exercise of the tournament series as detailed in our issue of November 7 (p. 528). Intending participants are referred to the announcement there printed.

Applications for portions of the mixture of salts (accompanied by a stamped and addressed envelope, not a stamp merely) will be received up to Tuesday, March 9, on which day the samples will be posted. Students' reports will be received up to Saturday, March 20.

ANOTHER GRATUITOUS SERVICE SUGGESTED.—"What about using our National Health insurance service? Surely it could be modified to suit. Our chemist shops are quite capable of keeping the [gas] masks in an efficient condition and issuing them when required. Whole districts could be dealt with and a mask given to each applicant who showed his emergency (G.M. Ticket)."—A correspondent of the "Western Morning News."

National Pharmaceutical Union

MEETINGS of the Executives of the National Pharmaceutical Union and Chemists' Defence Association were held at 4 and 5 Queen Square, London, W.C.1, on February 24, Mr. D. A. Bryan in the chair. The Executive approved the specimen copies of the new price list.

DATE OF ANNUAL MEETING

The Executive approved the annual report and income and expenditure account, and instructed the secretary to make the necessary arrangements for the annual meeting to be held on March 23 at noon.

NATIONAL HEALTH INSURANCE

The Executive approved samples of wound dressings and the specification submitted by the Ministry of Health for inclusion in the list of prescribed appliances as from July 1.

The Ministry of Health submitted proposals for an amendment of the Drug Tariff. It was proposed to alter the existing Part III and Part IV of the Tariff to Part IIIA and Part IIIB, which includes drugs and appliances which a pharmacist is expected to keep in stock, and insert new Sections Part IVA and Part IVB to include drugs and appliances which may be supplied but which is not necessary for a pharmacist to keep in stock. The Executive considered the amendments suggested by the Ministry and made certain suggestions.

A letter was received stating that the Ministry of Health was prepared to agree that the specification for hypodermic needles should come into operation on July 1, 1937.

The Executive received the report of the distribution committee in regard to the final distribution of the drug fund for the year 1936.

C.D.A. Matters

The secretary reported that of the twenty-nine cases outstanding since the last meeting of the directors, one might be considered closed, and the following settlements had been effected in four cases:—Sheep died after dipping with member's dip; claim settled by payment of £1 10s. Sal volatile supplied for sweet spirit of nitre; claim settled for £10 10s. Injuries caused by fall on cellar entrance; claim settled for £11 6s. Clothing burned on electric fire; claim settled for £1 10s.

Thirteen new cases had arisen, of which one had been settled as follows:—Pigs died after dosing with medicine; claim settled for £6 8s.

The secretary reported that a member had been defended in respect of a summons for selling white precipitate ointment said to be 20 per cent. deficient in white precipitate. The summons had been withdrawn, as the analyst had been found to be at fault. Another member had been defended in respect of a summons under the Dangerous Drugs Act for failing to enter prescriptions in the register. The summons had been found to be wrongly issued and was amended. The member had been fined. Two summonses for debt had been defended.

The secretary was authorised to make the necessary arrangements in regard to the annual meeting to be held on March 23 at 12.30 p.m.

Recent Wills

MR. ALFRED JACKSON, Irelands Farm, Halewood, near Liverpool, chemist and druggist, who died on November 29 last, left estate gross value £20,240, with net personality £17,720.

MR. LLEWELLYN ALBERT JAMES HUTCHIN, Brierpatch, Park Hill, Loughton, Essex, pharmacist, who died on December 18 last, aged seventy-three, left property gross value £14,198, with net personality £12,980.

MR. MICHAEL RYAN, P.C., L.A.H., M.P.S.I., 12 Lower Camden Street, Dublin, medical practitioner and chemist, who died on August 20 last, left personal estate in England and the I.F.S. valued at £7,855.

Minor Burns

A REPORT to the Therapeutic Trials Committee of the Medical Research Council by Dr. R. Leslie Stewart, of Edinburgh Royal Infirmary, appeared in a recent issue (3972, 380) of "The British Medical Journal." During the past four years the author has carried out an extensive series of clinical tests on the efficacy of certain salicyl esters in the treatment of burns and scalds. Hundreds of cases have been treated, and details of forty of these appear in one of Dr. Stewart's tables. In the first series amyl salicylate alone was used. Satisfactory healing was obtained in approximately two-thirds of the cases treated, but in the remaining third, owing to the presence or onset of relatively mild local sepsis, healing was delayed and antiseptic dressings, such as flavine, had to be substituted. None of the patients showed evidence of salicylate poisoning or of general toxic absorption.

The next stage of the investigation was to treat a series of cases along the same lines but with the addition of an antiseptic to the amyl salicylate. Various combinations were tried and tested bacteriologically before deciding to employ dichloramine-T, which, unlike many other antiseptics, was found to be readily miscible with amyl salicylate and to give an almost clear solution when used in a concentration of 1 per cent. in the ester. The strength of the solution had later to be reduced by half since several of the patients complained of considerable discomfort with the higher concentration of dichloramine-T. Approximately eighty cases of burns and scalds were treated with this mixture. Healing progressed satisfactorily in 90 per cent. of these, but in the remainder some degree of sepsis occurred. The results, on the whole, were thus superior to those obtained with amyl salicylate alone, but even with the dichloramine-T at a strength of only $\frac{1}{2}$ per cent. the patients were apt to complain of more discomfort than hitherto, and a further serious disadvantage lay in the fact that the solution was unstable.

Another series of tests was begun with amyl salicylate and abracide. In addition to combining well with amyl salicylate, abracide has been shown to possess good germicidal properties, and was claimed to be relatively non-toxic and non-irritating to the tissues. Fifty-one cases were treated, employing a low concentration—1 in 1,000 of 5 per cent. abracide solution in amyl salicylate. Of these fifty-one cases very satisfactory healing was obtained in thirty-four, the average duration of the treatment being a little over a fortnight.

The Final Selection

Especially in view of the penetrating smell of amyl salicylate it was decided to test some other salicyl esters under the same conditions. Benzyl salicylate and methyl salicylate were successively used, but apart from alteration and diminution of the odour emanating from the dressings they appeared to have no advantages over amyl salicylate. For reasons given in the monograph it appeared that amyl salicylate was the ester of choice. The content of abracide in the mixture was increased to one in 10,000 (or 1 in 500 of the 5 per cent. commercial solution), and the changing of the deep or surface dressings was reduced to a minimum.

When the patients present themselves at hospital the affected area is cleansed with normal saline, and all raised epithelium is removed. An anæsthetic is rarely needed for minor burns, except in children or where the burnt area is heavily coated with some adherent domestic remedy, such as flour. Spirituous solutions are avoided. Swabs soaked in amyl salicylate and abracide are applied direct to the area, that in actual contact with the raw surface being only two or three layers of gauze in thickness. Wool and a bandage are then adjusted. The patient subsequently attends at four-day intervals, when, if possible, only the outer swabs are removed and the thin one next the lesion is left *in situ*. Fresh outer swabs, wrung out of the amyl salicylate and abracide solution, are applied after any excess of serious discharge has been wiped away. As the burnt area dries up and epithelium grows over it the lowest or primary gauze layer loosens off, and when it completely separates the lesion is found to be healed. Under such conditions the patient has no pain, and no cutaneous irritation or erythema has so far been met with. In some instances, owing to a more active exudation, such an "ideal" technique is impossible, and the entire dressing requires to be changed once or even oftener.

Scientific and Industrial Research Report

THE report of the Department of Scientific and Industrial Research for the period October 1, 1935, to September 30, 1936, recently issued, records, as did its counterpart last year, considerably increased expenditure by research associations. In the last three years the sum expended has increased from £167,370 to £232,468. In the same period grants from the Department to these organisations increased from £68,212 to £107,451. New laboratories have been opened during the year by the Electrical Research Association, and the Research Committee of the Institution of Automobile Engineers; extensions have been added to the laboratory accommodation of the Paint Research Association and the Cotton Research Association. In spite of such advances, the position of the Research Association movement is not yet regarded as entirely satisfactory. The Department is prepared to provide a further £66,000 each year to the support of research associations, and would have found that sum in each of the past two years had industry provided an equivalent contribution.

Among other features, investigations on the problems of sound-proof buildings have been carried out at the National Physical Laboratory in relation to aircraft engines, electrical transformers, road drills and traffic. Research has been begun on the production of static electricity in operating theatres of hospitals with a view to eliminating risk of ignition of anaesthetics by sparking. Methods for detecting in the atmosphere small quantities of poisonous gases commonly occurring in certain industrial processes have been worked out. Researches on dental amalgams have shown that the composition of the alloy used in making the amalgam must lie within very narrow limits if the fillings are to continue without contraction. Precautions which must be observed by the dentist in preparing the amalgam have also been established. The strength of the radiations from a specially designed radium unit, with which various radium "skin distances" can be obtained, have been measured in a water "phantom," a celluloid vessel containing water and giving the same scattering and absorption effects as a human body. Another investigation in progress is in connexion with the weak radiations which may reach distant parts of a patient's body during treatment.

Physics

The new photometry building of the National Physical Laboratory referred to in last year's report is now in occupation. Rooms are provided for routine photometry, the preparation and maintenance of substandards, photoelectric photometry, spectrophotometry, and research into such subjects as glare and visual sensitivity. In the heat and general physics division, a determination of the freezing point of palladium has been completed. The value obtained (1554.4° C. \pm 1° C.) confirms, within the estimated limits of error, the figure adopted in the International Temperature Scale. Further work has been carried out on the determination of the ratio of specific heats of gases at high temperatures by the sound velocity method. The preliminary results for carbon dioxide are in good agreement with those calculated from spectroscopic data. The experiments are now being extended to higher temperatures. Progress has been made with the investigation into the suitability of the röntgen as a unit of gamma-ray quantity or dose as well as for x-ray dosage. A study has been made of the two types of ionisation chamber employed in such measurements, viz., the free-air and the air-wall types, and it has been found that, under comparable experimental conditions, the results obtained with the two types are in agreement. Further investigations on the structure of teeth by the method of x-ray diffraction have been carried out for the Medical Research Council. The total quantity of radium tested during the year (20 grams) has exceeded the highest total for any previous year by more than two grams. In the optics division equipment has been provided for the preparation of systematic tables for use in designing optical instruments, and some preliminary tables have now been produced. For the investigation of the photometric properties of optical instruments, apparatus has been designed in which the visual photometer hitherto used is replaced by a photoelectric receiver. This is found to lead to an increase in precision and an economy in time, and it is proposed to instal

similar equipment for routine test work. Work is in progress on methods of reducing or eliminating the personal errors of observers in colorimetry. A comparison of the laboratory scale of radiation intensity with other well-known scales has been continued, and problems arising from the calibration of instruments for measuring radiation have received attention. Unsuccessful attempts to correlate measurements of solar radiation with those of radiation from artificial sources indicate that the calibration of solar radiometers may have to be restricted to the summer months, when natural radiation of suitable intensity is available. In the electrical standards and measurements division, the determination of the absolute unit of current by means of the ampere balance has been completed, and a detailed description of the work has been prepared for publication. In the photometry division, progress has been made in the development of the photo-electric methods of photometry. Photo-electric methods have been employed for investigations on lamps of the uniplanar filament type; the properties of various types of photovoltaic cells have been studied, and a method has been devised for compensating for the decrease of response of these cells with increase in the obliquity of the incident light. A detailed scheme for the periodical verification of standards of length and mass has been put into operation by the metrology department. A complete reverification of the N.P.L. standards of mass has been carried out. The construction of the standard barometer designed for use in the new vacuum chamber has been completed. An automatic mercury pipette has been designed to deliver the required quantity to an accuracy of 0.1 per cent.

Chemistry

Experiments have been continued at the department's chemical research laboratory on the effects of various conditions of operation on the efficiency of the process of softening water by means of representative commercial base-exchange zeolites, and with the object of preparing base-exchange materials from British clays. It has been discovered that a satisfactory material for use in softening water can be prepared from fuller's earth by treatment with hydrochloric or sulphuric acid followed by drying, baking at about 600° C., and then treatment with solutions of sodium aluminate and sodium silicate. Certain firms are taking steps with a view to developing the use of this material on a commercial scale. It was mentioned in the last annual report that experiments at the chemical research laboratory had led to the discovery that synthetic resins prepared from certain phenolic substances and tannins have marked base-exchange properties. Work on these resins has included measurements of their absorptive capacity for gases. Attempts have been made to synthesise new bases of the pyridine series with carbazole and acridine structures in which one or two benzene rings are each replaced by a pyridine nucleus. Details of the action against syphilis and against sleeping sickness of sodium succinianilidomethyl-*p*-arsenate have been published. Sebacyl and azelayl derivatives of *p*-arsanilic acid analogous to those of the succinyl series have been investigated. The mechanism of phenolic-formaldehyde condensations has been studied by means of vacuum distillation and pyrolysis. The preparation of monohydroxyacetone by catalytic dehydration of glycerin has been patented. An investigation of the enzymic properties of the acetic acid bacterium, *Bact. suboxydans*, has revealed the presence of both dehydrogenase and cytochromeoxidase. The greatly increased oxidative activity of suspensions of the organisms due to the addition of chalk to the growth medium has been found to be accompanied by a considerable increase in phosphatase activity. The modification in properties produced by the chalk is a temporary variation and not a permanently acquired character. Work on the reduction of sulphates by *Vibrio desulphuricans* and related types has continued, with particular reference not only to the mechanism of the reduction but also to its economic aspects. Preliminary experiments indicate that bacteria capable of phosphate-reduction are frequently present in crude cultures from certain soils and muds, but these organisms appear to be distinct from those which reduce sulphates to sulphides, and have not yet been obtained in pure cultures. Further phenanthridine compounds have been sent to the pathology department, Glasgow University, where some have been shown to possess considerable antiseptic properties.

Air Raid Precautions

By Commander R. H. Errington

THE headline of an article which I have just read in a periodical was "Air Raid Precautions: What is the Truth?" It was an alarming article; almost hysterical. I had to assure myself that things could not be quite as bad as the writer made out. He said our gas masks were inefficient; there were no gas masks for "our little ones"; and that £20 to £30 is required to make a room gas-proof; so what were the poor to do? Actually, information based on the considered judgment of the Home Office is being systematically published. The Air-raid Precautions Department has been evolving a national scheme for some time past. Starting from nothing, it is remarkable how much sound information has been collected and issued for the guidance of the country. The handbooks and memoranda can be obtained for a small sum from H.M. Stationery Office. The list comprises:—

Handbook No. 1. Personal Protection against Gas	...	Price 6d.
Handbook No. 2. First Aid for Gas Casualties	...	Price 4d.
Handbook No. 4. Decontamination of Materials	...	Price 6d.
Handbook No. 6. Air-raid Precautions in Factories and Business Premises	...	Price 6d.
Memorandum No. 1. Organisation of Air-raid Casualties Services	...	Price 6d.
Memorandum No. 2. Rescue Parties and Clearance of Debris	...	Price 2d.
Memorandum No. 3. Organisation of Decontamination Services	...	Price 2d.

Other publications are in course of preparation, and those that are available are well worth reading. The one which will be of most general interest is the Householders' Handbook; it is likely to be issued shortly. It will give advice on how to make a gas-proof room in any house, and it should be noted that the cost of adapting a room for this purpose will be something in the nature of a shilling or two.

The issue of handbooks is only a small part of the huge task which the Home Office has undertaken. Their scheme embraces the co-ordination of all services for the welfare of the civilian population in time of war. These include the work of the police, fire brigades, British Red Cross Society, St. John Ambulance Brigade, and those authorities who are responsible for water, gas, electricity, etc. Then follows the delegation of responsibility to the local governments, statutory authorities and the police for organising various services. Next comes the training of personnel for duties—such as fire-fighters, air-raid wardens, medical services, road repair, rescue work and decontamination services. Last, and greatest task of all, the general education of the whole civilian population. I am often amazed to read in newspapers that some Metropolitan borough or county authority has nearly completed its air-raid precautions scheme. How can this be, I wonder? There is only one scheme to the Home Office, and it cannot be completed in the twinkling of an eye. After a year of systematic spadework the first tangible results are becoming evident, but there is by no means a completed scheme in actual existence. That stage will not be reached until men have been trained for road repair, rescue, decontamination and first-aid services; until the first-aid posts are ready to be equipped, to the last safety-pin, at seven days' notice; until we have air-raid wardens with whom we are in personal touch in every ward of the borough, and until at least one person in every six of the population knows something about a gas mask and air-raid precautions in general. I have not included the auxiliary fire-fighters because the fire brigade will be responsible for them; nor have I mentioned the gas-detection service, which will be organised by the police.

Fire and Panic Dangers

It is natural that poison gas should have caught the public imagination and assumed a position out of proportion to its importance as a menace. Actually, fire and panic are worse dangers than gas. It is so easy for fire and panic to get out of hand; but gas, the relatively little gas that can be conveyed by bombs or spraying, is not likely to become unmanageable. The danger of cloud gas depends upon its degree of concentration. In trench warfare the cloud can be ejected down wind from cylinders massed and stretching for miles along the front of attack. In war on towns gas can only be dropped in bombs;

it has to take its chance of where and how it is ejected. High concentrations, therefore, are likely to exist only for a short time and in close proximity to the bomb crater. If doors and windows are shut, any serious concentration of gas is unlikely to enter a sound building. It is essential to keep a sense of proportion about liquid gas (mustard gas). It will no doubt be dropped in a number of small bombs or it may be sprayed like invisible dew over a large area. The answer to that, for civilians, is to keep indoors. The gas-detection service, equipped with protective clothing and mechanical detectors, will detect where the gas lies and the areas will be segregated from the public. It is possible that an air attack would be carried out in two phases: a first wave of aeroplanes armed with incendiary and high-explosive bombs to smash up buildings, and then, an hour or two later, when everyone is rushing about, a second wave to drop poison gas among the ruins? That is why the general public must be educated. They cannot be protected against a direct hit until public opinion demands armoured shelters for all at enormous cost. They can, however, be taught to provide themselves with gas-proof and splinter-proof shelters where they will be reasonably safe, and supplied with gas masks which are guaranteed to keep out all the gases they are likely to encounter in such concentrations as they are likely to meet. The services of trained men will be available to preserve order and deal with casualties, human and material, as they arise. What of the children? No doubt gas masks, provided with bellows which a mother can operate for her baby could be put on the market. One can easily devise some sort of gas mask for a child, but who can ensure that a child under five would wear it? The only sensible thing would be to arrange collective security; by that I mean a gas-proof room. The same applies to invalids. Many hospitals are thinking of this problem. The latest gas mask keeps out every known gas, including arsenical smokes, and there does not seem a possibility of any new gas appearing to confound its design.

Colloidal Solutions

In the current issue of "Koll. Zeitung" (1937, 2), H. Brintzinger recommends the use of ascorbic or iso-ascorbic acid as reducing agents in obtaining colloidal solutions of various metals, such as gold, silver, platinum, palladium, selenium, tellurium, molybdenum and tungsten. Either of these acids has the advantage over other reducing agents of being more complete and rapid in action. A high degree of purity is also attained, although in some cases it may be desirable to use a dialyser or easily permeable membrane (e.g., cellophane), for the removal of low-molecular-reaction products or unused acid. The addition of alkali in one or two cases is recommended. The general procedure is to prepare a very dilute aqueous solution of the metal salt, acid, or oxide, sometimes heating to boiling point, and then adding the acid very dilute (0.5 or 0.3 per cent.), as shown in the following examples:

Gold.—1 c.c. of a solution of 0.5 gm. of chloro-auric acid ($H_3AuCl_4 \cdot 2H_2O$) in 100 c.c. distilled water is further diluted with 100 c.c. water; to this 6 c.c. of $N/10$ potassium carbonate solution is added; the mixture is boiled and 5 c.c. of 0.5 per cent. ascorbic or iso-ascorbic acid added, then again brought to boiling point. A clear reddish to violet solution of colloidal gold is thus obtained practically free from un-reduced gold compounds, as proved by the Thiessen ammonia test.

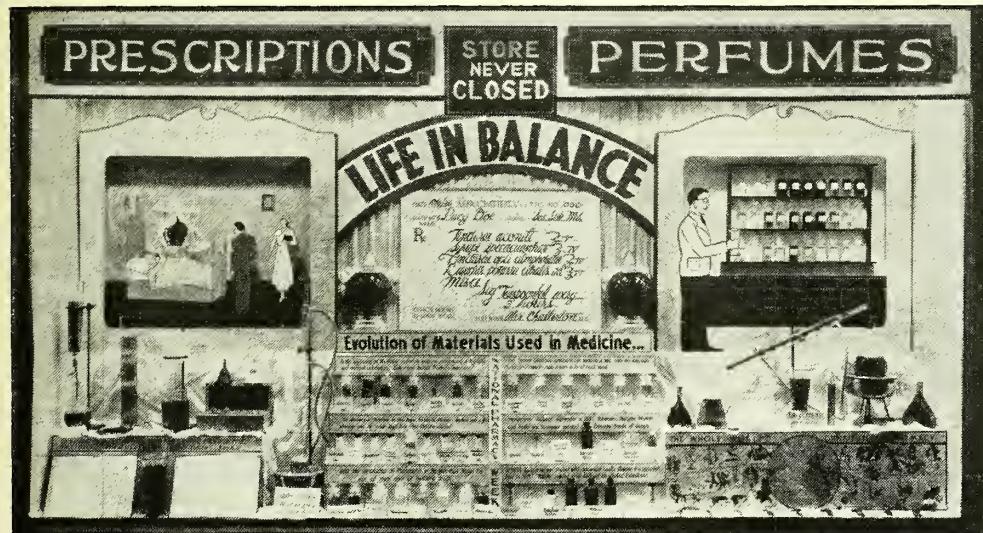
Palladium and Platinum.—1 c.c. of 0.3 per cent. potassium or ammonium palladio-chloride solution is diluted with distilled water to 200 c.c. and 2 c.c. of the 0.5 per cent. acid solution added at room temperature, yielding a clear brown palladium solution. In the case of platinum 4 c.c. of $N/10$ sodium hydroxide solution is added.

Silver.—1 c.c. of $N/10$ silver nitrate solution is diluted to 200 c.c., and 1 c.c. of the 0.5 per cent. acid added, yielding a turbid yellowish-white solution.

PRIZE-WINNING Pharmacy Displays

Leading displays in three groups in the Pharmacy Week Window Display Competition organised by the American Pharmaceutical Association,

October, 1936



THE report of the pharmacy week window display contest committee of the American Pharmaceutical Association, just issued, comments on some of the entries. The grand prize (Federal Wholesale Druggists' Association Trophy) was awarded to Morgan & Millard, Inc., Baltimore, Maryland, for a window entitled, "Life in Balance." The opinion of the judges was that this exhibit best fulfilled the requirements originally outlined in the rules, namely, "interpretative thought, human-interest appeal, etc." In this exhibit, the prescription was vividly and prominently displayed as the fulcrum and most important part of the balance in which the life of the patient, the success of the physician and the professional services of the pharmacist were carefully weighed. The subsidiary exhibit, "The Evolution of Materials used in Medicine," was accorded special mention because of its chronological method of display. The prize for colleges of pharmacy (banner and standard given by the American Pharmaceutical Association) was awarded to Temple

University for the window entitled, "The Story of Cinchona." The Committee realised that the subject was not original, but they felt that each of the other nine points was amply borne out. The prize for pharmaceutical associations (also a banner and standard given by the American Pharmaceutical Association) was awarded to the Philadelphia Association of Retail Pharmacists.

Above: First place, Group II (Colleges of pharmacy)

Left: Grand prize and first place in main group.

Below: First place, Group III (Associations of pharmacy)



U.K.—Canadian Trade Agreement

THE report of the Trade Agreement between the United Kingdom and Canada, signed at Ottawa on February 23, 1937, has been published by the Stationery Office, Kingsway, London, W.C.2, price 9d. The chief alterations in the tariff of import duties imposed on goods of United Kingdom origin entering Canada are given below. The date of operation of the new rates of duties has not yet been fixed, but they will continue in force until August 20, 1940.

Article	Duty	Article	Duty
Alcoholic perfumes and perfumed spirits, bay rum, cologne and lavender waters, lotions, hair, tooth and skin washes, and other toilet preparations containing spirits of any kind:—		Castile soap	Free
(a) when in bottles or flasks containing not more than four ounces each	30%	Glue, liquid, powdered or sheet, and gelatine, n.o.p. and per pound	17½% 2 cts.
(b) when in bottles, flasks or other packages, containing more than four ounces each	85.00 per gallon	Gelatine, edible	10%
Albumenized and other papers and films chemically prepared for photographers' use, n.o.p.	Free	Perfumery, including toilet preparations, non-alcoholic, viz., hair oils, tooth and other powders and washes, pomatums, pastes and all other perfumed preparations, n.o.p., used for the hair, mouth or skin	15%
Hypersensitive or supersensitive panchromatic films and infra-red films, unexposed, for aerial photography	Free	Surgical dressings, antiseptic or aseptic, including absorbent cotton, lint, lamb's wool, tow, jute, oakum, woven fabric of cotton weighing not more than seven and one-half pounds per one hundred square yards, whether imported singly or in combination one with another, but not stitched or otherwise manufactured; surgical trusses and suspensory bandages of all kinds; sanitary napkins, spinal braces and abdominal supports	10% 15% 20%
Biological products, animal or vegetable, n.o.p., for parenteral administration in the diagnosis or treatment of diseases of man, when manufactured under licence of the Department of Pensions and National Health under regulations prescribed by the Food and Drugs Act; and biological products, animal or vegetable, n.o.p., for parenteral administration in the diagnosis or treatment of diseases of animals or poultry, when imported under permit of the Veterinary Director General	Free	Dry white lead	75 cts.
Cream of tartar in crystals and tartaric acid crystals	Free	White lead ground in oil	15 cts.
Oxide of tin or of copper	Free	Paints and colours, ground in spirits, and all spirit varnishes and lacquers	10%
Sulphate of zinc and chloride of zinc	Free	Varnishes, lacquers, japs, japan driers, liquid driers, and oil finish, n.o.p.	15 cts.
All chemicals and drugs, when of a kind not produced in Canada, which were on August 20, 1932, dutiable at rates of 15, 25, and 25 per cent., under Tariff Item 711	Free	Gums, viz.:—Australian, copal, damar, elemi, kauri, mastic, sandarac, Senegal, tragacanth, gedula, and barberry; gum chicle or sappato gum, crude; lac, crude, seed, button, stick and shell; ambergris; Pontianac	Free
Bichromate of potash, crude; red and yellow prussiate of potash	Free	Essential oils, n.o.p., including bay oil, otto of limes, and peppermint oil	Free
Peroxide of soda; silicate of soda in crystals or in solution; bichromate of soda; nitrate of soda or cubic nitre, n.o.p.; sulphide of sodium; nitrite of soda; arseniate, binarsenate, chlorate, bisulphite and stannate of soda; prussiate of soda and sulphite of soda	Free	Halibut liver oil, crude or refined	Free
Sulphate of alumina or alum cake; and alum in bulk, ground or unground, but not calcined	Free	Cod-liver oil, crude or refined	Free
Acid phosphate, not medicinal	Free	Palm and palm kernel oil, unbleached or bleached, not edible; shea butter	Free
(i) Solutions of peroxides of hydrogen, n.o.p.	12½%	Oils, viz.:—coconut, palm and palm kernel, not edible, for manufacturing soap; carbolic or heavy oil	Free
(ii) Solutions of hydrogen peroxide containing 25 per centum or more by weight of hydrogen peroxide	Free	Crude peanut oil, for refining for edible purposes, used as materials in Canadian manufactures	Free
Non-alcoholic preparations or chemicals, such as are used for disinfecting, dipping or spraying, when in packages not exceeding three pounds each, in weight, the weight of such packages to be included in the weight for duty	5%	Coconut oil, not edible, when imported for use in the manufacture of refined cocoanut oil	Free
Sulphuric ether; chloroform, n.o.p.; preparations of vinyl ether for anaesthetic purposes	Free	Olive oil for manufacturing soap or tobacco or for canning fish; olive oil for use in the processing of textile fibres, including the finishing of fabrics	Free
All medicinal, chemical and pharmaceutical preparations, compounded of more than one substance, including patent and proprietary preparations, tinctures, pills, powders, troches, lozenges, syrups, cordials, bitters, anodynes, tonics, plasters, liniments, salves, ointments, pastes, drops, waters, essences and oils, n.o.p.:—		Chemical stoneware composed of a non-absorbent vitrified body specially compounded to resist acids or other corrosive reagents	Free
(a) When dry	17½%	Magnesium carbonate, imported for use in the compounding or manufacture of rubber products	Free
(b) Liquid, when containing not more than two and one-half per centum of proof spirit	20%	Asbestos in any form other than crude, and all manufactures thereof, when made from crude asbestos of Empire origin, n.o.p.	Free
Soap powders, powdered soap, mineral soap, and soap, n.o.p.	20%	Toilet articles of all kinds, including atomizers, brushes, buffers, button hooks, combs, cuticle knives, hair receivers, hand-mirrors, jewel boxes, manicure scissors, nail files, perfume bottles, perfumery jars, shoe horns, trays and tweezers, of which the manufactured component material of chief value is sterling silver	17½%
Soap, common or laundry, per one hundred pounds	50 cts.	Surgical and dental instruments of any material; surgical needles; x-ray apparatus; microscopes valued at not less than \$50 each, by retail; and complete parts of all the foregoing	Free
		Film of standard width (one and one-eighth of an inch and over) when imported for the sole purpose of having 16 millimetre reproductions made therefrom and provided that the original is re-exported within three months from date of importation	15% Free
		Photographic dry plates	Free
		Fertilizers, compounded or manufactured, n.o.p.	Free
		Barytes	Free
		Charcoal, animal, for use in the refining of sugar	Free

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, March 4

THE EXCELLENT VOLUME of business and brisk markets recorded in the first month of the year were not sustained during February, but, on the whole, business was fairly good and values have been maintained at the advances recently recorded. Basic raw materials of the manufacturers have increased in value, and this movement is bound to be reflected in PHARMACEUTICAL CHEMICALS generally, but so far only a few of the more important products have been affected. MERCURIALS are very firm, and there is a stronger tone in IODIDES. GLYCERIN, B.P., continues firm at last week's further advance. It seems likely that EPHEDRINE HYDROCHLORIDE will reach higher figures before long.

Crude Drugs

The second month of the year finished on a quiet tone, with prices, spot and forward, for practically all products fully steady. A revival in business to the previous month's level would no doubt bring with it a further recovery in values. Brisk demand this week for spot AGAR with further advances in shipment prices for new crop. Very little Cape Aloes offered for shipment. BUCHU is reported firmer for shipment, but there has been no rush of business. Japanese CAMPHOR is very steady. All lots sold at advanced prices at this week's sale of CARDAMOMS. Spot prices for CASCARA SAGRADA are again dearer; market firm. Zanzibar and Madagascar CLOVES are firm but quieter. Exceptionally good fishing and COD-LIVER OIL reports from Lofoten. No COLOCYNTH on spot and shipment firm with no signs of any being despatched from the source. DERRIS Root is having a poor season so far. Supplies of all descriptions of ERGOT are negligible on spot and practically nothing offered forward. Sudan GUM ACACIA eased and then recovered. HONEY is quiet but steady. Japanese MENTHOL has had a poor week of business, and values are slightly easier. Limited spot supplies of MERCURY available, and the outlook is not quite so acute; prices have advanced. Good sales on spot of RHUBARB, principally ROUGH ROUND variety, stocks of which are now very small. Grey Jamaican SARSAPARILLA has been in demand and values are firmer. SLIPPERY ELM BARK continues scarce on spot.

Essential Oils

Business has been moderate during the past week, with the turnover for the month less than in January. ANISE (STAR) has been quiet and is slightly easier forward. BERGAMOT is nominal for shipment and quiet on spot. No shipment offers of Brazilian Bois de Rose. CASSIA is steady. Java and Ceylon CITRONELLA oils are again easier and business has been slow. All descriptions of CLOVE oil are firm at recent advances. Bourbon GERANIUM is slightly easier for shipment, and the market for this oil generally seems rather lifeless. Ho (SHU) continues firm on spot; no shipment offers. Sicilian hand-pressed LEMON shows no sign of weakening at the source; moderate spot business. LEMONGRASS has been dull and is easier forward. A little more interest in French Guinea ORANGE, with the market steadier this week. Japanese PEPPERMINT has been on the quiet side, and values are a shade easier. Last week's firmer shipment price for PETITGRAIN has not been maintained. All SPANISH oils of good quality are firm on spot at good prices. SPEARMINT is dull and irregular. WORMSEED firm for shipment and dearer on spot.

Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:

Centre	Quoted	Par	Feb. 25	Mar. 4
Amsterdam	Fls. to £	12.107	8.93	8.93
Berlin	Mks. to £	20.43	12.15	12.16
Brusse's	Belgas to £	nominal	29.03	29.02
Copenhagen	Kr. to £	18.159	22.40	22.40
Lisbon	Esc. to £	110	109 ³	109 ⁴
Madrid	Ptas. to £	25.22 ¹	nominal	nominal
Milan	Lire to £	92.46	93	92 ²
Montreal ...	Dol. to £	4.86 ²	4.89	4.89
New York ...	Dol. to £	nominal	4.89	4.89
Oslo	Kr. to £	18.159	19.90	19.90
Paris	Fr. to £	124.21	105 ³	105 ³
Prague	Kr. to £	164.25	140 ⁸	140 ⁸
Stockholm	Kr. to £	18.150	19.40	19.40
Warsaw	Zloty to £	43.38	26	26
Zurich	Fr. to £	25.2115	21.45	21.45

Bank rate 2 per cent.

Pharmaceutical Chemicals, etc.

THE recent advances in values of some important products are well maintained. Business has been about average. Cream of tartar and tartaric acid are steady.

ACETANILIDE.—Market dull, values unchanged: B.P. crystals and powder, 1s. 5d. to 1s. 8d. per lb., as to quantity.

ASPIRIN.—Makers' and dealers' prices are unchanged, business continues on a very fair scale: home trade, ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8¹d.; 28 lb., 2s. 9d.; 14 lb., 2s. 10d.; 7 lb., 3s.; 4 lb., 3s. 2d.; 1 lb., 3s. 4d. per lb. Bulk packing free, net, carriage paid. Contracts, over twelve months, minimum one ton; over six months, less than one ton.

BARTONINE.—Cheap spot offers, business slow: spot, one cwt., 1s. 3d.; 56 lb., 1s. 8d.; small parcels, up to 16s. 3d. per lb.

BENZOIC ACID (B.P.).—Market steady, normal business: quantities, ex works, 1s. 9d.; spot parcels, 1s. 10d. to 2s. 3d. per lb., ex store, as to quantity.

BISMUTH SALTS.—Makers' scales of prices and terms of payment continue at the recent revision: Carbonate, not less than one cwt., 6s. 6d.; 28 lb., 6s. 9d.; 8 lb., 7s. 3d.; 4 lb., 8s.; less than 4 lb., 8s. 6d. per lb.

BROMIDES.—Makers' scales of prices steady. No Continental quotations. POTASSIUM, B.P., five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s. per lb. SODIUM, B.P., five cwt., 1s. 10d.; one cwt., 1s. 11d.; 28 lb., 2s. 2d. per lb. AMMONIUM, B.P., five cwt., 1s. 11d.; one cwt., 2s.; 28 lb., 2s. 3d. per lb., net. Resale clause applies. 28-lb. parcels and one-cwt. cases free. Export quotations are maintained, as follows: POTASSIUM, B.P., five cwt., 1s. 5d.; one cwt., 1s. 4¹d. SODIUM, B.P., five cwt., 1s. 5d.; one cwt., 1s. 5¹d. AMMONIUM, B.P., five cwt., 1s. 6¹d.; one cwt., 1s. 7d. per lb., f.o.b.

BUTYL CHLORAL HYDRATE.—Some small demand: spot, 14 lb., 8s.; 7 lb., 8s. 3d.; 1 lb., 8s. 6d. per lb., in 1-lb. bottles.

CAFFEINE.—The scales for Continental material, duty paid, in 5-lb. tins, are as follows:—Pure, alkaloid, two cwt., 8s. 10¹d.; one cwt., 9s. 0d.; 56 lb., 9s. 2¹d.; less than 56 lb., 9s. 4¹d. per lb. Citrate, two cwt., 5s. 11¹d.; one cwt., 6s. 0d.; 56 lb., 6s. 1¹d.; less than 56 lb., 6s. 2d. per lb. Soda, Sal. two cwt., 6s. 2¹d.; one cwt., 6s. 3¹d.; 56 lb., 6s. 4¹d.; less than 56 lb., 6s. 5¹d. per lb. English makers' prices as follows: Pure alkaloid, two cwt., 9s.; one cwt., 9s. 2d.; 56 lb., 9s. 4d.; less than 56 lb., 9s. 6d. per lb. Citrate, two cwt., 5s. 11¹d.; one cwt., 6s.; 56 lb., 6s. 1d.; less than 56 lb., 6s. 2d. per lb.

CITRIC ACID (B.P. CRYSTALS).—Market continues steady with more inquiry: British material quoted at 1s. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

GLYCERIN (B.P.).—Makers' prices continue at the advance recorded last week:—

Contracts or Single Deliveries of	Under 1 cwt.	1 cwt. and under 2 ¹ cwt.	2 ¹ cwt. and under 5 cwt.	5 cwt. and under 10 cwt.	10 cwt. and under 20 cwt.	10 cwt. and under 5 tons
Minimum Deliveries off contract of	—	1 cwt.	1 cwt.	1 cwt.	2 cwt.	5 cwt.
Tins, 14 lb. ...	per cwt.	127/6	123/-	122/-	119/-	118/-
Tins, 28 lb. ...	"	124/6	120/6	119/6	116/6	115/6
Tins, 56 lb. ...	"	121/6	118/-	117/-	114/-	113/-
Drums, 1 cwt. (charged 20/-),	"	"	113/6	112/6	109/6	108/6
Drums, 2 ¹ cwt. (" 60/-),	"	"	"	110/6	107/6	106/6
Drums, 5 cwt. (" 75/-),	"	"	"	"	107/-	102/-
Drums, 10 cwt. (" 100/-),	"	"	"	"	"	105/6
	5 cwt. and under 10 cwt. ...	—	—	—	—	—
Extra per cwt. for smaller deliveries ex contract than as above specified	2 cwt. and under 5 cwt. ...	—	—	—	—	—
	1 cwt. and under 2 cwt. ...	—	—	—	—	—
	Under 1 cwt. ...	1/-	1/-	1/-	1/-	1/-

Tins and cases free, glass packages and iron drums charged extra and returnable. Drums credited in full only if returned carriage forward in good condition within six months of date of invoice. Contracts booked for delivery over 12 months, 2¹ per cent. monthly account except where stated net. 14 lb. and over carriage paid direct ex works, smaller quantities carriage paid if forming part of a carriage paid order. Any style and size of package may be assorted to secure relative quantity price. Prices are quoted subject to an undertaking on the part of the buyer not to resell at prices and terms below the scale for such quantities current at the time the resale is made.

EPHEDRINE HYDROCHLORIDE.—Market continues very firm and it is now doubtful if 4s. 6d. would be taken, most sources requiring 4s. 9d. per oz.

LACTIC ACID (B.P.)—Market is steady: quantities in carboys: 1s. 4½d. to 1s. 5d.; in winchesters and bottles, 1s. 6d. to 2s. per lb., as to quantity.

MERCURIALS.—Makers' prices continue firm at the recent advance:—

		Under 112 lb.	Not less than 112 lb.
		Per lb. s. d.	Per lb. s. d.
Ammoniated lump, B.P. (white precip.)	...	6 0	5 11
Ammoniated powder, B.P.	...	6 2	6 1
Bichloride lump, B.P. (corros. sub.)	...	5 3	5 2
Bichloride powder, B.P.	...	4 11	4 10
Chloride, B.P. (calomel)	...	6 0	5 11
Red oxide cryst., B.P. (red precip.)	...	7 1	7 0
Red oxide levig., B.P.	...	6 7	6 6
Yellow oxide, B.P.	...	6 5	6 4
Persulphate white, B.P.C.	...	6 2	6 1
Sulphide black (hyd. sulph., cum. sulph. 50 per cent.)	...	6 1	6 0

Special prices for larger quantities and for contracts. The previous market alteration was on August 18, 1936.

METHYL SALICYLATE.—Market is quite steady, business moderate: spot, ten cwt., 1s. 1½d.; five cwt., 1s. 2d.; one cwt., 1s. 2½d.; less than one cwt., 1s. 2½d.; small quantities, in bottles, up to 2s. per lb.

METHYL SULPHONATE.—Dealers find business slow and very keen: two cwt., 1s. 3½d.; one cwt., 1s. 9½d.; 56 lb., 20s. 2½d.; small parcels, 20s. 8½d. per lb.

PHENACEIN.—Fair business, with values quite steady: crystals or powder, bulk quantities, 2s. 6d.; smaller parcels, 2s. 7d. to 3s. per lb., as to quantity.

PHENAZONE.—Market is dull and imported material continues to be quoted at keen prices in the region of 6s. to 6s. 6d. per lb., as to quantity. Powder, 2½d. per lb. extra.

POTASSIUM PERMANGANATE (B.P.)—Imported material is quoted steadily, tending dearer: bulk quantities, in drums, 9½d. to 10d.; druggists' parcels, 10d. to 1s. per lb., as to quantity.

QUININE SALTS.—Convention prices continue unchanged: sulphate, 2s. 2d.; bisulphate, 2s. 2d.; ethyl carbonate, 2s. 9½d.; salicylate, 2s. 10½d.; hydrochloride, 2s. 8½d.; bihydrochloride, 3s.; hydrobromide, 2s. 8½d.; bihydrobromide, 3s.; valerenate, 3s. 8d.; hypophosphite, 4s.; alkaloids, 3s. 0½d. per oz., carriage paid on bulk quantities; 100-oz. tins free, smaller packages extra.

RESORCIN.—British material quoted unchanged: crystals, one cwt., 4s. 11d.; 56 lb., 5s.; 28 lb., 5s. 1d.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; less than 7 lb., up to 6s. 6d. per lb.

SALICYLIC ACID (B.P.)—Makers' prices steady: five cwt., 1s. 7d.; one cwt., 1s. 7½d.; 28 lb., 1s. 8d.; 14 lb., 1s. 9d.; 7 lb., 1s. 10d.; 4 lb., 2s. per lb.

SALOL.—Demand quiet, quotations keen: spot, crystals, 2s. 7½d. to 3s. per lb., as to quantity; powder, 2½d. per lb. extra.

SANTONIN.—Only a very small demand, with spot quotations in the region of 1s. 11s. per kilo, ex store.

SODIUM BENZOATE (B.P.)—Market is steady, with a fair business passing: bulk quantities, 1s. 6d.; one cwt., 1s. 7d.; smaller parcels, 1s. 7½d. up to 2s. per lb., as to quantity.

SODIUM DIEIHYLBARBITURATE.—A modest business at unchanged values: spot, one cwt., 1s. 6d.; 28 lb., 1s. 9d.; 14 lb., 1s. 10d.; 7 lb., 1s. 11d.; smaller parcels, up to 1s. 6d. per lb.

SODIUM SALICYLATE (B.P.)—Market is about steady at makers' prices: home trade, crystals or powder, five cwt., 1s. 5½d.; one cwt., 1s. 6d.; 28 lb., 1s. 9d.; 14 lb., 1s. 10d.; 7 lb., 2s.; 1 lb., 2s. 3d. per lb.

SULPHONAL.—Dull and very competitive: crystals or powder, two cwt., 1s. 5d.; one cwt., 1s. 10½d.; 56 lb., 1s. 1d.; smaller parcels, up to 1s. 7d. per lb.

TARTARIC ACID (P.B. CRYSTALS).—Market is steady at the recent advance: British makers quote at 1s. 0½d. per lb., less 5 per cent. discount. Dealers offering foreign materials at competitive prices.

THEOBROMINE.—Continental material: pure, two cwt., 7s. 10d.; one cwt., 8s.; 56 lb., 8s. 2d.; smaller quantities, 8s. 4d. per lb. Sodium, salicylate, two cwt., 6s. 3½d.; one cwt., 6s. 4½d.; 56 lb., 6s. 5½d.; smaller quantities, 6s. 6½d. per lb., delivered, 5-lb. tins free, smaller packages extra.

THYMOL.—Values are maintained, quiet business: synthetic, fine white, one cwt., 6s.; 56 lb., 6s. 3d.; 28 lb., 6s. 9d.; 14 lb., 7s. per lb.; ex ajowan seed, one cwt., 8s. 5d.; 56 lb., 8s. 10½d.; 28 lb., 9s. 5½d.; 14 lb., 1s. 6d. per lb.

VANILLIN.—Market very steady, with a fair amount of business done: ex clove oil or guaiacol, five cwt., 1s. 9d.; one cwt., 1s. 13s.; 56 lb., 1s. 3d.; less, 1s. 9d. per lb.

Crude Drugs, etc.

AGAR.—Good business on the market, spot dearer and firm, with supplies now very limited. Shipment quotations have also advanced again, and there are very few offers of the Yokohama grade. Old crop: spot, Kobe No. 1, 3s. 4½d. to 3s. 6d.; No. 2, 3s. 2d.; Yokohama No. 1, 3s. 1½d. per lb.; shipment, Kobe No. 1, 3s. 3d. to 3s. 1d.; No. 2, 3s. 1d. to 3s. 2d.; Yokohama No. 1, 3s. 1d. per lb., c.i.f. A certain amount of speculative business on the market with afloat at 3s. 1d., c.i.f., and January-March, 3s., buyers, with sellers holding off. Thursday: Japan quotes Kobe No. 1 at 3s. 7d., c.i.f. On spot, Kobe No. 1, 3s. 7½d.; No. 2, 3s. 4½d. and Yokohama, 3s. 4d. February-March sold at 3s. 3d., c.i.f., with further buyers. Market very active and firm, tending dearer.

ALOES.—Only small offers of Cape for shipment: moderate business on spot: Cape, spot, 6s. to 6s. 6d., as to quality; shipment, 58s. to 6s. per cwt., c.i.f., as to packing. Curaçao, spot, 95s. to 115s.; shipment, 9s. to 9s. 6d. per cwt., c.i.f.

ANTIMONY.—Chinese crude, spot, is quoted nominal at £38; shipment, March-April, £37, c.i.f. English regulus, £82 to £83 per ton.

BALSAMS.—Market is steady, fair amount of small business: *Tolu*, 1s. 8d.; *Canada*, 2s. 7d.; *Copaiba*, firm at 1s. 10d.; *Peru*, 5s. 4d. per lb., spot.

BARBASCO ROOT.—Market remains dull: spot root, testing about 7 per cent. rotenone, 1s. 1d. per lb., ex store.

BENZOIN.—The demand is still very modest, with values ruling cheap from about £3 10s. to £5 per cwt., ex store.

BUCHU.—Firmer conditions are reported from the source, with shipment prices held at about 1s. 10½d. to 1s. 11d. per lb., c.i.f. Spot goods are quoted at from 2s. for old crop off-colour up to as high as 2s. 6d. per lb., but there is no evidence of business at the higher figure.

CAMPHOR.—The Japanese product has sold fairly well on spot at full prices: Japanese manufacturing BB grade is steady at the recent advance at £8 10s. per 100 lb. Japanese, spot, tablets, 2s. 7½d.; powder, 2s. 3½d.; slabs, 2s. 3d. per lb., ex store; shipment, tablets, 2s. 3d.; powder, 2s. 1d.; slabs, 2s. 0½d. per lb., c.i.f. English refined flowers: one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz., and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz. and ¼ oz., 3s. 6d. per lb. Contracts at special prices.

CANTHARIDES.—Some fair business on spot in small parcels: spot, Russian, 6s.; Chinese, 2s. per lb., as to quantity; shipment, 1s. 9d. per lb., c.i.f.

CARDAMOMS.—At this week's public auction 14 cases of Duckwari were catalogued, and there was a brisk and competitive demand, with all lots sold: medium pale, 5s. 7d.; small medium, 5s. 4d.; small, 4s. 4d.; brown, 4s. 2d. to 4s. 8d. and brown splits, from 3s. 9d. per lb. For shipment, Aleppo greens quoted at 4s. 2d., c.i.f. Bombay seed, 6s. 3d., c.i.f. Mangalore seed, 6s. 1d., c.i.f. The market generally is very firm.

CASCARA SAGRADA.—Following last week's firmer tone, prices advanced further on spot; business has not been of much account, but holders are firm: spot, 1936 peel, 6s. to 6s. 6d.; 1935 peel, from 6s. 6d.; 1933 peel, 6s. 6d. per cwt. The source reports shortage, with very few offers: 1936 peel, if available, 5s., c.i.f., and 1934 peel, nominal at 6s. per cwt., c.i.f.

CHAMOMILES.—A moderate inquiry on spot, with prices well maintained at 9s. to 12s. per cwt., as to quality flowers.

CLOVES.—Values maintained at recent increases, market very steady: Zanzibar, spot, 10½d.; shipment, March-April, 10½d. per lb., c.i.f. Madagascar, in bond, 9d.; shipment, March-April, 9d.

The landings of Zanzibar in London during the week ended February 27 were *nil* and the deliveries 11s, leaving a stock of 2,088. From January 1 to date the landings of Zanzibar have been 1,098 and the deliveries 686. Landings of Madagascar for the week ended February 27 were 700 and the deliveries 61, leaving a stock of 4,281. From January 1 to date the landings of Madagascar have been 3,365 and the deliveries 417 packages.

COCOA BUTTER.—Market is steady: prime English, 1s. 4½d. to 1s. 5½d. per lb. Foreign, 1s. 2½d. to 1s. 3½d. per lb., as to quantity.

COCONUT (DESICCATED).—Market is quiet and slightly easier forward: spot, fine, 29s.; medium, 27s. 6d. per cwt.; shipment, halves, March-April, 26s. per cwt., c.i.f.

COD-LIVER OIL.—Bergen reports Lofoten fishing continues very satisfactory: results to February 27:—31,946 tons of cod and 17,117 hectol. of oil, compared with 26,250 tons of cod and 12,214 hectol. of oil on the same date in 1936, and 17,631 tons of cod and 10,623 hectol. of oil in 1935. Finest Lofoten steam refined non-freezing medicinal oil, 93s. to 94s. per barrel, c.i.f., London. Spot, in small lots, about 12s. 6d. per barrel, ex store. Newfoundland, non-freezing medicinal oil, 130s. per barrel, ex store. British non-freezing medicinal oil is now quoted at 9s. to 10s. per barrel, c.i.f. London, duty free, while quotations from another home source are at higher figures.

COLCHICUM.—Only a very limited business on spot, with the price for small parcels about 45s. per cwt., ex store.

COLOCYNTH.—The spot market is bare of bulk supplies of pulp. Production continues firm, with June-July at 1s. 11d., c.i.f. Resellers of earlier positions quoting the same figure.

DANDELION ROOT.—Market has been mostly quiet, with good clean foreign root at 8s. per cwt., ex store.

DERRIS ROOT.—Business is still very disappointing: shipment offers, new crop, basis 17 per cent, ether extract, about 9d. per lb., c.i.f. Spot parcels in the region of 11d. per lb., as to test.

ERGOT.—Acute scarcity continues in all descriptions. A parcel of Russian was offered from Hamburg at 6s., c.i.f., at which price business was reported. One small lot of Portuguese quoted at 6s. 3d., c.i.f. No Russian on spot. Any Spanish/Portuguese firm, at 6s. 6d. per lb., ex store.

GENTIAN.—Dealers are quoting limited spot stocks of Continental root at 57s. 6d. per cwt., ex store.

GINGER.—Spot market steady, West African for shipment quoted rather cheaper: West African, spot, 65s.; shipment, March-April, 49s. 6d. per cwt., c.i.f. Jamaican, spot, bold, in barrels, 87s. 6d. to 90s.; small grindings, 62s. 6d. per cwt., in bags, ex store.

GUM ACACIA.—Market has remained dull and values weakened and then recovered: spot, Kordofan cleaned sorts, 45s. 6d.; bleached No. 1, 105s.; extra, 117s. 6d. per cwt.; shipment, Kordofan cleaned sorts, 41s. 6d. per cwt., c.i.f.

HENBANE.—Not much business except small orders. Spot quoted in the region of 80s. per cwt., ex store.

HENNA.—Some good green Egyptian leaves available at about 32s. 6d. per cwt.; brown, 30s. per cwt., ex store.

HONEY.—Business has remained quiet, but holders of spot goods are steadily maintaining their prices: Jamaican, 38s. to 51s. for dark manufacturing to palish set. Californian, 49s. to 51s., duty paid. Canadian, 48s. St. Domingo, darkish, 36s. per cwt., ex store.

HYDRASTIS.—Market is fully steady, business quiet: spot, from 13s. 6d. ex store; shipment, 14s. per lb., c.i.f.

IPECACUANHA.—A small business, and the quoted price might be shaded for good quantities: Matto Grosso, B.P. test, 7s. per lb.; shipment, 6s. 8d. per lb., c.i.f.

LOBELIA HERB.—Occasional small business with spot quoted at 7½d. to 7½d. per lb.; shipment dull, 7d. per lb., c.i.f.

LYCOPODIUM.—The firmer tendency noted last week developed: spot value is now at 4s. 6d. per lb., ex store.

MENTHOL.—The Japanese product has been quiet all the week. K/S brands, spot, 13s.; in bond, 11s. 9d. per lb. Japanese shippers quote March-April at 11s. 7½d., with resellers of earlier positions at 11s. 6d. per lb., c.i.f. English synthetic continues to be quoted from 7s. 6d. to 10s. 6d. per lb., as to quality and quantity.

MERCURY.—Some 5,500 bottles have recently been landed here, out of which only 350 to 400 are still available on the market. Further limited supplies are expected to come along from Spain, and we are advised that shipments from Italy for this market have also been arranged. Opinion was expressed that the threatened shortage is not so acute. Quoted prices have been advanced as follows: spot, £14 9s. to £14 10s. per bottle, ex store; shipment, c.i.f., London, £14 7s., and f.o.b. Continent, 69 dollars 50 cents per bottle.

OPIUM.—Usual small business, market steady: values steady: spot, Turkish, 1s. 3d. per unit landed and duty paid; Persian, 1s. per unit, in bond.

ORANGE PEEL.—Supplies of new crop thin cut Tripoli are available on spot at about 1s. per lb., as to quantity.

PEPPER.—Market has been quiet; shipment quotations fractionally cheaper. Lampung, in bond, 3½d.; shipment, March-May, 2½d.; April-June, 2½d.; August-October, 3d., c.i.f. Tellierry, spot, 4½d.; shipment, March-April, 37s. 6d., c.i.f. Aleppy, spot, 4½d.; shipment, March-April, 30s., c.i.f. White Muntok, in bond, 6d.; shipment, March-April, 4½d.; April-June, 5d. per lb., c.i.f. Firmer at the close.

PIMENTO.—Values are steadier, business rather quiet: spot, 8½d. per lb.; shipment, February-April, 69s. per cwt., c.i.f.

QUASSIA CHIPS.—Dealers are selling occasional small parcels at about 20s. per cwt., ex store.

QUILLIA BARK.—Supplies of whole bark are quoted from 25s. to 27s. 6d. and crushed bark at 35s. per cwt., ex store. Business quiet.

RHUBARB.—Values for all descriptions are very steady: Shensi, 3s. 9d. to 4s. 3d.; pickings dearer from 3s. 9d. Good business in Rough Round at 1s. 9d. per lb., ex store, and supplies of this grade are now very low, most of the recent arrival having been cleared.

RUBBER.—Values show appreciation on the week, fair business closing quiet: standard ribbed smoked sheet, spot, 10½d.; March, 10½d.; April, 10½d.; May, 10½d.; June 10½d.; July-September, 10½d.; October-December, 10½d.; January-March, 10½d. per lb.

SAFFRON.—Spot holders of the limited supplies of Valencia are quoting 67s. 6d. to 75s. per lb., as to quantity and quality.

SARSPARILLA.—There has been quite a good demand this week for grey Jamaican. Stocks of this description are now comparatively small; the few bales being firmly held for 1s. 3d. per lb., ex store.

SEEDS.—ANISE.—Bulgarian, 32s. 6d., spot, duty paid. CANARY.—Spot, Mazagan, 28s. 6d.; Turkish, 26s.; Plate, 24s.; Spanish, 50s. to 52s. 6d., all duty paid. CARAWAY.—Dutch, 36s. 6d., spot, duty paid,

and 31s. 6d., f.o.b. Holland. CORIANDER.—Morocco on spot is offered at 17s. 6d., duty paid, and 16s., in bond. CUMIN.—Malta is not offering on spot, 35s., c.i.f. is quoted for prompt shipment. Morocco spot is 38s. 6d., duty paid, and 36s. 6d., in bond. FENUGREEK.—Morocco on spot, 14s. to 14s. 6d., duty paid. FENNEL.—Indian on spot is 32s. 6d. MUSTARD.—English, 23s. to 32s. 6d. per cwt., according to quality.

SENEGA.—Market is dearer and firm on spot at 2s. 1d. per lb., ex store. Practically no shipment offers, with the value nominal at 2s. 2½d. per lb., c.i.f.

SENNA.—A moderate business is passing on the spot, with prices unchanged from those detailed in last week's report.

SELLAC.—Market has been dull and is easy as quoted: spot, standard TN orange, 52s. to 57s.; fine orange, 65s. to 125s.; pure button, 62s. 6d. to 65s. per cwt., spot. For delivery, TN, March, 51s.; May, 52s.; August, 53s. 6d. For arrival, TN, March-April, 50s. per cwt., c.i.f.

SILPPERY ELM BARK.—Supplies on spot continue very scarce, with grinding quality firm at 6½d. per lb., ex store.

SQUILL.—Stocks are reported to be rather limited here, values steady: white, 30s.; No. 2, 22s. 6d. per cwt., ex store.

TONKA BEANS.—Not much demand this week: spot, fair frosted Para beans, about 3s. 6d. per lb. Angostura, about 8s. 3d. per lb., ex store.

TRAGACANTH.—Arrivals of all grades continue restricted, with the spot market firm and showing further advances. Medium amber grades have increased to £18 to £25. Druggists' fine white ribbon, £72s. 10d.; No. 2 grade, £62 10s.; and No. 3 grade, £55 per cwt., ex store.

VALERIAN ROOT.—Occasional small spot business, with values steady at about 35s. per cwt., ex store.

WAX.—BEES'.—The spot market is steady; shipment quotations slightly cheaper: Calcutta, bleached, spot, 150s.; shipment, March-April, 142s. 6d.; ordinary quality, spot, 135s.; shipment, 127s. 6d., c.i.f. Abyssinian, no spot offering; shipment, March-April, 127s. 6d., c.i.f. Benguella, spot, 145s.; shipment, 127s. 6d., c.i.f. Conakry, spot, none offering; shipment, none offering. Dar-es-Salaam, spot, 145s.; shipment, 140s. per cwt., c.i.f. CARNAUBA.—Spot steady, with shipment offers dearer. Fatty grey, spot, 175s.; shipment, afloat, 170s., c.i.f.; March-April, 167s. 6d., c.i.f. Chalky grey, spot, 165s. 6d.; shipment, March-April, 163s. 6d., c.i.f. Primeira, spot, good quality, 220s., f.a.q., 215s.; shipment, March-April, 210s., c.i.f. Mediana, spot, 210s.; shipment, 205s., c.i.f.

Essential Oils, etc.

A FAIR volume of business is recorded, with values maintained in most instances. Citronella oils are again cheaper, closing steadier. Sicilian oils are all quiet. Clove oils are firm. Lemongrass is dull. French Guinea orange is steadier. Japanese peppermint has been quiet.

ALMOND.—British material is cheaper than foreign: English-made, cwt. lots, 3s. 5d.; smaller parcels, up to 3s. 7½d. per lb.; foreign, cwt. lots, 3s. 6d.; smaller parcels, 3s. 9d. per lb.

ANISE (STAR).—Spot and forward quotations are rather easier, business quiet: spot, leads, 3s. 7d.; tins, 3s. 4d.; drums, if available, 3s. 4d. per lb., ex store; shipment, leads, nominal; tins, 3s.; drums, 2s. 10½d. per lb., c.i.f.

BERGAMOT.—A limited business is reported on spot, with holders' prices in the region of 13s. 6d., ex store. No shipment offers, with the price nominal at 13s. 3d. per lb., c.i.f.

BOIS DE ROSE.—Despite the fact that there is still an absence of shipment offers of Brazilian oil, there are spot sellers at 6s. to 6s. 3d. per lb., as to quantity and packing.

CAJUPUT.—Some small business on spot: B.P., 2s. to 2s. 3d. per lb., as to quantity.

CANANGA.—Market is irregular, business a little better on spot, from 6s. to 6s. 4½d. per lb.; shipment, 5s. 9d. to 6s. per lb., c.i.f.

CARAWAY.—Market is steady, business quiet: Dutch rectified, 8s.; crude, 7s. 7d. per lb., landed and duty paid.

CASSIA.—A moderate business, with values maintained: spot, 3s. 3d. for good quality oil; shipment, leads, 3s.; drums, 2s. 10d. per lb., c.i.f.

CEDAR LEAF.—Dealers are quoting small spot parcels at about 4s. 9d. to 5s. per lb.

CEDARWOOD.—A quiet business reported on spot, with values showing no change: African, in drums, 1s.; smaller packages, up to 1s. 3d. per lb. American, in drums 1s. 1½d. to 1s. 2d.; smaller packages, 1s. 4d. per lb.

CINNAMON LEAF.—Values are well maintained for Ceylon oil, with drums at 3s. 7d. and smaller packings, up to 3s. 10d. per lb.; very few shipment offers received: March-April, 3s. 5d. per lb., c.i.f.

CITRONELLA.—A further decline in values this week, but the tone is now steadier and the source now reports a slight recovery: Ceylon, spot, drums, 1s. 5d.; smaller parcels, up to 1s. 10d.; shipment, drums,

1s. 2½d. per lb., c.i.f. Java, spot, drums, 1s. 9½d.; smaller parcels, up to 2s.; shipment, drums, about 1s. 7d. per lb., c.i.f.

CLOVE.—No shipment offers of Madagascar this week: spot market firm and short. Madagascar, spot, drums, 5s. 3d. to 5s. 4½d.; smaller packings, up to 5s. 7d. per lb.; shipment, nominal. English distilled oil is firm at 6s. for cwt. lots and up to 6s. 3d. for smaller packings. Zanzibar bud oil is offered by re-sellers from 5s. 6d. to 5s. 9d. per lb.

EUCALYPTUS.—Firm at the source, spot market fully steady but quiet: Spanish oil is now available. Shipment offers firm: Australian, 70 to 75 per cent., 1s. 7½d., in tins, and 1s. 7d., in drums; 80 to 85 per cent., 1s. 8½d., in drums, per lb., landed; higher prices for small lots on spot; shipment, March-April, 70 to 75 per cent., 1s. 5d.; 80 to 85 per cent., 1s. 6d. per lb., c.i.f.; Spanish, 70 to 75 per cent., 1s. 6½d. per lb., landed.

GERANIUM.—This market remains dull and Bourbon is rather easier: Bourbon, spot, 16s. 6d. to 17s.; shipment, 15s. 6d., c.i.f. Algerian, spot, about 16s.; shipment, about 15s. per lb., c.i.f.

GRAPE-FRUIT.—Spot holders continue to quote Californian oil at about 11s. to 12s. per lb., as to quantity.

HO (SHI).—No shipment offers from the source, but one or two prices received from the Continent at high figures: spot supplies are short and firmly held for 2s. 6d. to 2s. 9d. per lb., as to quality and quantity.

JUNIPER BERRY.—Standard quality oils continue to be quoted from 3s. 5d. to 3s. 6d. per lb., ex store.

LAVENDER.—Values are steady, market dull: French, 38 to 40 per cent., steady from 15s. 6d. to 18s. 6d., with blended oil at cheaper prices. Lavandin is quoted from 9s. 6d. to 11s. per lb., as to quality and quantity. There may be some cheaper sellers.

LEMON.—A little more interest is reported on spot in Sicilian hand-pressed oil, with dealers' prices ranging from 13s. 9d. to 15s. 6d. per lb., as to quality and quantity. Firm conditions continue at the source with quotations from 14s. 6d. to 15s. 9d. per lb., c.i.f. Machine made oil, from 13s. to 14s. 6d. per lb., c.i.f. No Californian cold-pressed oil available and practically no distilled regular quality on the market; quoted nominally at 8s. 4d. per lb., landed.

LEMONGRASS.—Market has again been dull, with shipment offers at about 1s. 8d. per lb., c.i.f.: spot values are in the region of 1s. 11d. to 2s. per lb.

MANDARIN.—Both spot and forward prices appear to vary as to quality of the oil: spot, 17s. 6d. to 20s. per lb.; shipment, 16s. to 19s. per lb., c.i.f.

NEROLI.—Values are maintained, market dull: spot, from 14s. to 19s. per oz., as to quality and quantity.

NUTMEG.—English-made oil is selling at 5s. 9d. to 6s. 3d. per lb., as to quantity. American oil, spot, 5s. 10d. to 6s. per lb., ex store.

ORANGE.—Sicilian sweet is quoted in the region of 14s., c.i.f., and bitter oil at about 8s. 6d. per lb., c.i.f., with no interest shown. Rather more interest in French Guinea oil this week, and shipment is steadier at about 4s. 10½d., c.i.f., in drums. On spot, new crop, in drums, quoted at 5s. 9d., with old crop oil slightly cheaper. Smaller packings, up to 6s. per lb. Californian oil in quiet demand. Small drums, 4s. 2½d.; tins in cases, 4s. 3½d.; single cases, 4s. 6d. per lb., ex store.

PALMAROSA.—The demand on spot is small, with sellers at 10s. 6d. to 11s. per lb.; shipment, nominal, no offers.

PATCHOULI.—A quiet spot business is reported, with Singapore oil about 16s. 6d. to 16s. 9d., spot, and shipment offers from 15s. 9d. per lb., c.i.f.

PEPPERMINT.—The JAPANESE product has been in quiet demand this week: spot, 5s. 2d. to 5s. 3d., as to brand; near afloat, 4s. 11d., c.i.f., with buyers at slightly less. Japanese shippers quote April-May at 5s. 3d. per lb., c.i.f. CHINESE oil on spot sells slowly at about 5s. 1d. per lb. The AMERICAN natural oil is quoted for shipment at about 2 dollars 30 to 45 cents per lb., c.i.f.; spot supplies are offered at comparatively cheap prices, with business quiet.

PETITGRAIN.—Values have not been maintained at the recent advance: shipment, 3s. 11d., c.i.f.; spot, in short supply and quoted at 4s. 3d. for cases and up to 4s. 6d. per lb. for small parcels.

ROSEMARY.—Market continues firm and in limited supply: Spanish oil of good quality is worth 3s. 9d. to 4s. per lb., as to quantity.

SANDALWOOD.—Genuine East Indian Mysore, 19s. per lb., in one-case lots on spot; oil described as British Indian at very competitive prices. English-made East Indian, 22s. 6d. to 25s. per lb., as to quantity. English-made West Indian, 7s. 3d. per lb. Australian oil continues steady: five cases, 14s. 6d.; one case, 14s. 9d.; 7-lb. tins, 15s. 3d. per lb.

SAGE.—A small business, with holders of Spanish oil requiring about 3s. 3d. per lb.

SPERMINT.—Quotations are still irregular: spot, 8s. 6d. to 9s.; shipment, 7s. 7½d. to 8s. 4d. per lb., c.i.f. Market dull.

SPIKE.—A fair demand reported, with spot supplies of good quality Spanish oil fully steady at 5s. 9d. to 6s. per lb., as to quantity.

WORMSEED.—Steady, with business quieter: spot, 10s. 10½d. to 11s. 3d., as to seller and quantity; shipment, 10s. 9d. per lb., c.i.f.

U.S.A. Trade Notes

U.S.A. COD-LIVER OIL IMPORTS.—Arrivals from all destinations during the past eleven years were as follows:

	Gal.	\$		Gal.	\$
1926	1,921	1,616	1932	1,248	804
1927	2,375	2,231	1933	3,433	1,711
1928	2,572	2,523	1934	3,470	2,191
1929	2,861	2,448	1935	4,607	2,975
1930	2,895	2,229	1936	5,790	3,547
1931	1,737	1,312			

U.S.A. IMPORTS OF AGAR.—Landings of agar for the past nineteen years were as follows:

	Lb.	\$		Lb.	\$
1918	262,000	109,000	1928	374,000	274,000
1919	483,000	265,000	1929	561,000	435,000
1920	271,000	149,000	1930	399,000	306,000
1921	369,000	147,000	1931	501,000	325,000
1922	301,000	213,000	1932	480,000	185,000
1923	392,000	369,000	1933	641,000	161,000
1924	501,000	462,000	1934	405,000	156,000
1925	405,000	403,000	1935	451,000	162,000
1926	451,000	297,000	1936	625,000	275,000
1927	366,000	230,000			

Average for 19 years, lb. 436,760. Average value 19 years, \$259,052. Average value per lb., \$·59.

U.S.A. ESSENTIAL OILS IMPORTS.—The import trade in essential oils in 1936 was noted for the increased receipts (quantity basis) of cassia and cinnamon, geranium, bergamot, sandalwood, lavender, lemon and orange, as compared with 1935. Imports for the group as a whole (both quantity and value) constituted a record for the six-year period, 1931-1936.

Item	1934		1935		1936	
	Lb.	\$	Lb.	\$	Lb.	\$
Cassia and cinnamon	378	243	451	347	486	314
Geranium	146	693	123	503	131	545
Otto of rose (oz.)	26	206	36	273	35	263
Bergamot	28	106	99	135	108	183
Citronella and lemongrass	2,186	724	2,048	579	1,865	425
Lavender	298	704	226	509	299	851
Lemon	193	136	131	131	149	188
Orange	140	155	161	171	176	180
Sandalwood	—	—	1	3	4	14
Lime	47	240	64	299	53	270
All other	2,792	1,281	2,758	1,397	3,229	1,496
	6,284	4,489	6,100	4,414	6,535	4,738

Weight and value: 'ooo omitted.

U.S.A. QUININE PRODUCTS IMPORTS.—During the past three years imports were as follows:

	1933		1934		1935	
	Unit	\$	Unit	\$	Unit	\$
Cinchona bark, lb.	1,814	561	1,690	668	1,618	631
Quinine sulphate, oz.	1,639	558	1,611	688	1,442	646
Other quinine and alkaloids and salts from cinchona bark, oz.	1,256	357	1,759	647	2,416	415
Other alkaloids, salts and derivatives	—	146	—	173	—	148

Weight and value: 'ooo omitted.

U.S.A. CRUDE DRUGS EXPORTS.—Exports of botanical crude drugs (not including ginseng) from the United States during 1936 amounted to 4,417,000 lb., valued at \$635,000, as against 4,608,000 lb., valued at \$577,000, during 1935. Exports of these items for the period 1927 to 1934 inclusive, were as follows, in pounds and value:—1927, 4,864,000, \$1,030,000; 1928, 5,462,000, \$1,005,000; 1929, 4,449,000, \$924,000; 1930, 4,704,000, \$699,000; 1931, 3,837,000, \$491,000; 1932, 3,681,000, \$340,000; 1933, 4,366,000, \$423,000; 1934, 3,437,000, \$466,000. The United Kingdom and Canada are the best markets for American crude drugs, purchasing over 50 per cent. of the exports. Germany, France, and Australia, in the order named, are also good markets.

Correspondence

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

C. & D. Retail and Dispensing Price List

SIR.—Your claim that the *C. & D.* Retail and Dispensing Price List is the most complete list in regard to selling prices ever issued to the trade errs, if at all, on the side of modesty. Lists have come and gone sporadically over a long period, leaving the trade they were supposed to help much as they found it. I have made a study of price lists for many years, and have no hesitation in giving pride of place to the *C. & D.* list; I consider that it has become definitely an institution in British pharmacy. It has done more to help the individual chemist than all the rules and regulations of the past decade. Not only are the prices shown clearly, but since the methods of arriving at these prices are founded on an actuarial ascertainment there is no doubt. The actuarial factor also acts as a guide in arriving at any price for special work which a pharmacist may be called upon to perform. I would specially advocate the general use of the dispensing scales as the minimum basis on which all pharmaceutical dispensing should be fixed. There are many chemists who have done this for years, but we must endeavour to make a solid front by agreement among all who dispense physicians' prescriptions.

Yours, etc.,

PROGRESS (2/3).

Cod Liver Oil

SIR.—The British Cod Liver Oil Producers, Ltd., Hull, have occupied a great part of their letter [*C. & D.*, February 27, p. 263] in attempting to answer a question we did not raise. They do not appear to be prepared to state what their production of medicinal oil is in order that interested readers may test the accuracy or otherwise of their apparently sweeping statement. We must leave it at that and allow readers to form their own conclusions.—Yours respectfully,

ANDREW STEVEN & SON.

Glasgow, C.2.

Helping the Retailer

SIR.—A few days ago I was called upon by a medical propagandist representing a well-known manufacturing house. He said, "I have a few orders for local doctors to come through you"; he also had some to come through other chemists in the town. The C.F. scheme is incomplete, I would suggest, until all manufacturers of ethical proprietaries recognise the chemist as the sole medium of supply to doctors, hospitals and institutions, in the same way that these manufacturers do, instead of going behind the backs of chemists and supplying the above-mentioned users direct. I urge every chemist to press such a view upon all manufacturers of such products, and to support to the fullest only those who will support us; it is not sufficient to sell to the public only through chemists, but the principle must apply to doctors, hospitals, town and county councils too.—I am, etc.,

SPES (22/2).

Paper as a Container

SIR.—A question asked at Leicester after an address on "The Storage and Labelling of Poisons" (*C. & D.*, February 20, p. 212) shows how a practice which has always been considered the usual one may become an important problem under the Poisons List and Rules. The question was whether a powder paper is a container sufficiently stout to prevent leakage as required by Rule 22, and the answer was "Probably, but it is difficult to say without a test case." This is yet another instance in which a definite answer could not be given to a plain question, and it is further evidence of the difficulties to be faced in interpreting the provisions of the Act and Rules. It has always been customary for chemists to keep white precipitate powder (the poison quoted in the question) packed ready for sale wrapped in paper and sealed by the label, and the query now raised is whether this is sufficient to pass as a container. Other poisons which are usually kept packed in this way are salt of lemon and oxalic acid, and it may be noted that potassium quadroxalate is one of the substances which listed sellers of Part 2 poisons may repack for sale. It might be worth while making a few experimental purchases to see in what form it is handed over.—Faithfully yours,

PAPER PACK (23/2).

Professional Remuneration

SIR.—Your correspondent "The Thistle" (*C. & D.*, February 27, p. 263) says that the address by Mr. E. H. Simmons on "The Service We Render" inspires the question "What remuneration do we get?" It would seem by comparison with other callings which require a similar amount of scientific training and qualification that the remuneration is a very poor one. Pharmacists who manage to become proprietors (in many cases single-handed owners), whose turnovers average about £25 a week, find that by the time they have paid their expenses it is doubtful whether they are any better off than the average £4 a week assistant. Certainly there are chemists with much larger returns, but in those cases I think it will be found to be due to other circumstances such as better business ability, favourable situation of the premises, or sales of profitable sidelines rather than to the professional work done. In your editorial article on the same subject (p. 251) you mention the School of Pharmacy and its cost to members, and this has a certain bearing on this question of post-graduate remuneration. I do not think the members of the Society would object to a portion of their subscriptions going towards the cost of its upkeep if this advanced educational training provided the student with a certificate which assured him of prospects in keeping with the knowledge required by the syllabus. It is the feeling that pharmacists are contributing towards services from which they receive little or no return which is the root cause of much of the dissatisfaction one hears expressed. As to insurance dispensing, apart from any question of discounting or being paid in full, the chemist could not undertake the contract at all unless he had premises in which his business is carried on, and this is dependent on his other trade and not on panel dispensing; so to this extent he is providing the Government with a service.—Faithfully yours,

SERVIZIO (2/3).

Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

Warning

A man is reported to be visiting West End chemists and obtaining large sizes of Sanatogen by fraudulent means. His method is to ask for the largest size in stock. When this has been wrapped up and given to him he asks for some other article. While the assistant is getting this he goes to the door, as though to speak to a friend outside, but presumably to see if the coast is clear, and as soon as the assistant's attention is diverted from himself he disappears. The man is 5 ft. 11 in. in height, with fair hair and pale complexion; he has been wearing a mackintosh.—*Vivum*, W.1 (2/3).

Early Price Lists

In your note "Concerning Price Lists" (*C. & D.*, February 27, p. 251) you refer to the London Chemists' Price List and to Philip's Price List and their dates of publication. It would be interesting to know which was the earliest or original price list published as a guide to the retail sale of drugs. I have a copy of the Liverpool Chemists' Price List dated 1896, and this was the eleventh edition. The fact which strikes one immediately on looking through this old list to-day is that the prices for the commoner drugs sold over the counter are nearly the same as the present ones. In some instances the prices were a little higher in spite of the lower cost of overheads, though probably the total returns may have been smaller in general. The dispensing prices were quoted on a flat rate according to the size of bottle and the number of doses.—*Price List* (2/3).

[The earliest drug price list referred to in our issue of January 7, 1922, when the first quarterly issue of the *C. & D.* Retail and Dispensing Price List appeared, was dated 1676. In our Special Issue of June 30, 1934, a list of "Price of Medicaments Simple" in "The Charitable Physitian" (1639) was described; this, however, was not a separate publication, but formed part of a book.—EDITOR.]

Miscellaneous Inquiries

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them

A. T. B. (24/32).—HAIR TONIC.—As a stimulating hair tonic without a scheduled poison, we suggest you supply one containing, say, bay rum, borax and camphor, or something on the lines of the Erasmus Wilson's preparations. The following recipes are taken from "Pharmaceutical Formulas":—

I						
Honey	...	...	...	...	5 j.	
Borax	...	...	...	...	5 j.	
Cochineal	...	...	...	...	5 ij.	
Distilled water	...	...	...	...	5 xv.	

Powder the solids and pour upon them the water boiling. Then stir in the honey, and when lukewarm add the following solution:—

Oil of rosemary	...	...	...	...	30	xxv.
Camphor	...	...	...	...	5 j.	
Rectified spirit	...	...	...	...	5 ij.	

After standing for a day, filter.

II						
Resorcin acetate	...	...	...	...	10 gr.	
Tincture of capsicum	...	...	...	...	15 3.	
Oil of rosemary	...	...	...	...	10 3.	
Distilled water	...	...	...	...	1 oz.	
Isopropyl alcohol	...	...	...	to	8 oz.	

J. G. (13/98).—CANTHARIDES AS AN APHRODISIAC.—Owing to the risk of damage this preparation is not employed therapeutically for this purpose. Yohimbine and strychnine are preferable. The dose of yohimbine for small dogs is 1/400 to 1/250 grain, and for large dogs 1/60 grain, administered in food or drinking water three times daily.

Z. F. (Palestine).—FORMULAS FOR COSMETICS.—"Pharmaceutical Formulas," Volume II, contains a large number of recipes for toilet preparations, and it is from this publication that the following are taken:—

Borated Talc			Liquid Brilliantine		
Boric acid	...	...	1 oz.	Castor oil	...
Talc	...	...	6 oz.	Alcohol (90 per cent.)	...
Oil of lemon	...	...	4 3.	Benzyl acetate	...
Oil of lavender	...	...	2 3.	Oil of bergamot	...

Colloidal Sunburn Lotion					
Colloidal kaolin	...	...	...	2 oz.	
Calamine	...	...	...	1/2 oz.	
Tincture of benzoin	...	...	...	1/2 oz.	
Glycerin	...	...	...	1 1/2 oz.	
Tragacanth	...	...	...	2 dr.	
Distilled water	...	...	...	25 oz.	

V. & C. (23/24).—A FAIR CHARGE.—The price of the ingredients of the recipe, according to the *C. & D.* costing system, would be 2s. 6d., excluding the container. This figure is arrived at as follows:—

Essence of orange	...	1 dr.	4.0
Essence of vanilla	...	1 dr.	4.0
Essence of lemon	...	2 dr.	7.0
Essence of cayenne	...	1 dr.	2.0
Essence of raspberry	...	1 dr.	4.0
Essence of ginger	...	2 1/2 dr.	4.0
Burnt sugar	...	4 dr.	2.0
Tartaric acid	...	3/4 oz.	2.0

29.0

Since this is not in the nature of dispensing, there should be no charge for oncost, as the standard profit is already allowed on each line.

J. A. B. (2/33).—COLD AND INFLUENZA MIXTURE.—The formula for Cold and Influenza Mixture, P.F.9, was published in the *C. & D. Diary*, 1904, and is as follows:—

Phenol pur.	...	...	...	...	30	xxiv.
Aq.	...	...	...	ad	5	viiij.
3 ss. ter die p.c.						

L. J. H. (18/94).—CARBON DISULPHIDE FOR HORSE.—In equine practice the doses of carbon disulphide are as follows:—

Horses	...	...	...	...	2-4	drachms
Foals	...	...	...	...	1-2	drachms

administered in gelatin capsules. No purgative is given as a rule.

S. C. L. (26/26).—PERMANENT WAVING SOLUTION.—The solution made according to the formula in the *C. & D.*, February 13, p. 210 can be used without dilution. Many hairdressers purchase 0.880 ammonia and dilute 1 in 3. Such lotion would, of course, be too strong for setting.

E. P. (16/24).—MALTED MILK.—This may be made by combining whole milk with the liquid separated from a mash of ground barley malt and wheat flour, with or without the addition of sodium chloride, sodium bicarbonate or potassium bicarbonate, in such a manner as to secure the full enzymic action of the malt extract, and by removing the water. Such a product can hardly be made on a small scale, though an extemporaneous preparation might possibly be manufactured by mixing dried milk with powdered malt extract.

J. D. H. (2/3).—PESTLE AND MORTAR.—The pestle and mortar is used as a sign outside chemists' shops in Scotland and also in Holland, but in England it is not so well recognised as the sign of the chemist as is the carboy. From time immemorial the mortar has been used both for domestic purposes and in the practice of medicine. The earliest mention of mortars, so far as we are aware, is in Proverbs xxvii, 22: "Though thou shouldst bray a foot in a mortar among wheat with a pestle yet will not his foolishness depart from him." This marks the mortar as used in preparation of corn for food. Further mention is made in book of the Maccabees. Egypt—that mother of records—as usual gives her testimony to the antiquity of the mortar. Few people to-day have any conception of the important part played by domestic mortars in the Middle Ages. It is a great mistake to suppose that they were chiefly used by those who practised the healing art and by the vendors of drugs. They were a necessity in every household: now they are comparatively rarely used for domestic purposes. From the earliest times to which we can trace mankind mortars were known. Corn was ground to flour in them, and the North American Indian mixes in tiny stone mortars the pigment with which he decorates himself in peace and war. The metal mortar of the Middle Ages continued in use until the close of the last century. An end came to the long reign of the mortar in this wise. The latter half of the eighteenth century saw a great development of the mechanical means by which things could be crushed, ground, and disintegrated. Until then, with but few exceptions, almost everything that was needed for household use was bought whole; a revolution came, however, with the invention of various kinds of grinding-machines. Before the adoption of these mills all substances which could only be used in a powdered state had to be ground by the aid of the household mortar and pestle. Pepper, mace and other spices, mustard and many other things were obtained in their whole state and pulverised at home.

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," March 5, 1887

The French Hospital in London

As early as 1867, Mr. [Eugene] Rimmel, together with Dr. Vintras and a few others, conceived the idea of establishing a French hospital in London, and in 1878 this institution was opened in Lisle Street, and Mr. Rimmel acted as its honorary secretary until his death. The hospital is open to persons of every nationality. It is now about to be largely extended, a new site having been acquired in Shaftesbury Avenue. . . . Mr. Rimmel was on terms of intimate friendship with Victor Hugo, and frequently visited the poet when the latter was an exile in Guernsey and Jersey. . . . In his later days Mr. Rimmel occupied himself with the translation of Shakespeare into French verse, a task than which anything more difficult in the way of literary work is not easily imaginable. It is said that Mr. Rimmel succeeded in his work without impairing the vigour of our great dramatist or introducing a single idea foreign to the play. [From an obituary notice.]



*L*ike the Sturdy Oak

LUTARCH, the biographer of antiquity, wrote of the oak wreath as sacred to Jupiter and, therefore, a proper ornament for one who preserved the life of a citizen. Time and tradition have given character to the oak tree just as time and tradition give character to a business organization whose name, like the oak, has become a respected

symbol of high ideals in industry. Through three generations of the Lilly family, these ideals have been maintained by means of the Lilly Policy, which has preserved the economic rights of the drug trade, protected its profits, and provided equal opportunity to those engaged

in the distribution of prescription department commodities.



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THE CHEMIST & DRUGGIST DIARY AND YEAR-BOOK, 1936

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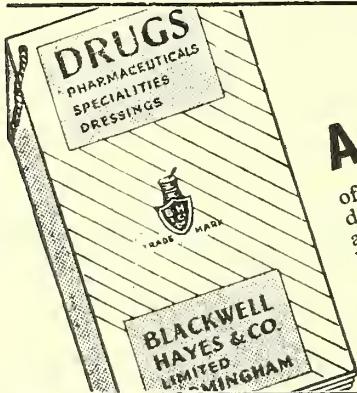
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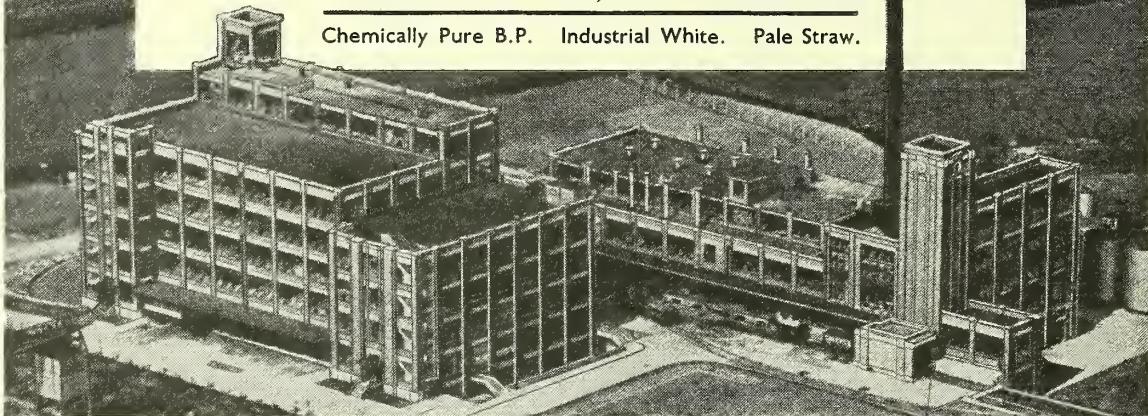
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From the date of its introduction, the sales of Skol Brand Healing Antiseptic have always been restricted to qualified pharmacists. This policy will be firmly maintained.

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BIG CAMPAIGN COMMENCED MARCH 5th

SKOL BRAND HEALING ANTISEPTIC will be advertised from Radio Normandy on March 5th and onwards. An unusually novel programme of outstanding interest has been arranged and big sales will follow. National press and magazine advertising will support the radio campaign.

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We specialize in the manufacture of all kinds and shall welcome enquiries.

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We can quote you very favourable prices for bulk or packed tablets of every description. Ask us for samples and prices.



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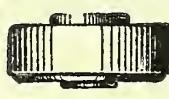
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Minimum quantity of TABLETS ONLY supplied direct is six doz. tins
Tablets are supplied in Display Outers each containing one doz. tins

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HALFWHITE OILS

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LUNG SYRUP

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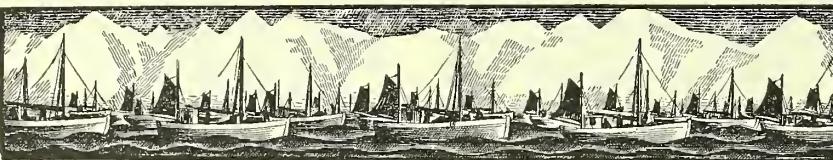
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BEECHAMS BRAND LUNG SYRUP
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For ADULTS OR CHILDREN
DIRECTIONS FOR USE:
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spoonful, Children a day.
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BEECHAMS BRAND PILLS
PRICE 1s 3d
ST. HELENS, LANCASTER, ENGLAND
BEECHAMS PILLS LTD., ST. HELENS

BEECHAMS BRAND POWDERS
ACE LIKE MAGIC.
BEECHAMS Brand POWDERS are a
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COLDS, RHEUMATIC and NERVE PAINS.
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No Proprietary Dishes are claimed in this preparation.
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Manufactured by Beechams Pills Ltd., St. Helens, Lancs.

BEECHAMS PILLS LIMITED
ST. HELENS ★ LANCASTER



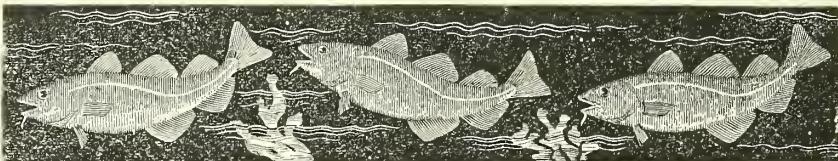
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Recommend your customers to take Norwegian Medicinal Cod Liver Oil daily, so that they may increase their power of resistance.

Norwegian Medicinal Cod Liver Oil is Nature's own cure, and contains the important vitamins A and D in the right ratio. It is the strongest bulwark against infections.

NORWEGIAN COD LIVER OIL

World-renowned for Quality.

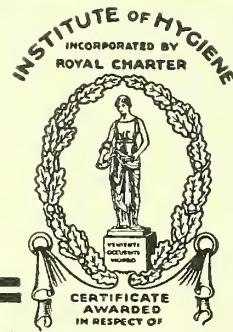


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DUMAS ★★ BRANDY
DOURADOS PORTS

Write for free samples and prices.

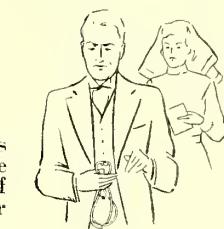
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**Put BRAND'S
before your customers
and PROFITS
in your till**

CALDER BRAND YEAST TABLETS

50 tabs 7d.
100 „ 1/-

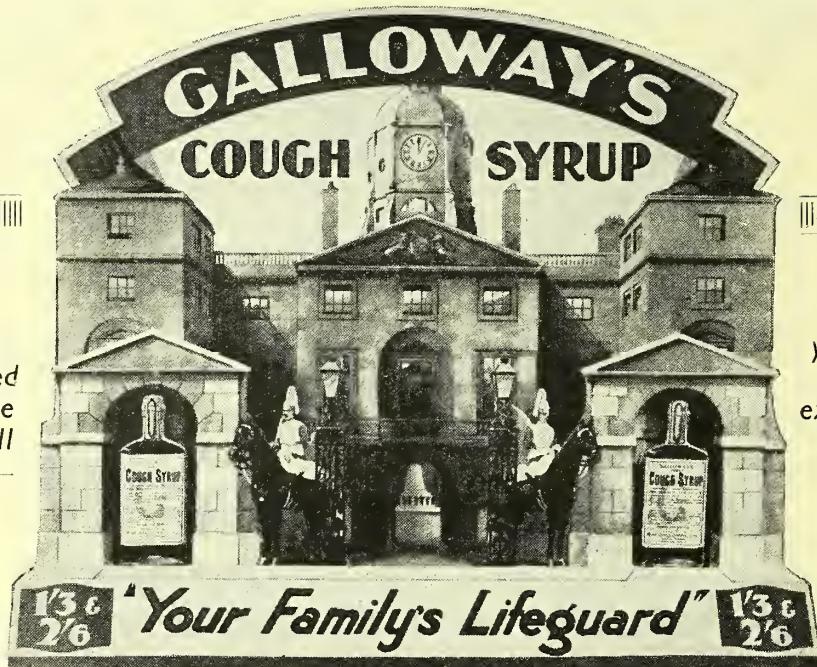
*Yeast improves
the complexion*

Calder Yeast Tablets can be had in
cartons of 1 & 2 doz. 50's, 1 doz. 100's

Supplies of Calder Yeast Tablets may
be obtained through Wholesalers

CALDERS' YEAST CO. LTD.
INVERKIP STREET, GLASGOW, C.5

Discounts
Retail 33½%
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COUGH SYRUP

THE GREAT NATIONAL REMEDY

SHOWING NEARLY 50% PROFIT

GALLOWAY'S COUGH SYRUP

A £5 Order entitles you to
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1/3 Size - - 12/- per doz.

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Carriage and Packing FREE in United Kingdom

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Special Offer

FOR £5 PARCEL

6½d. Size - - 4/9 per doz.

1/- " - - 9/- " "

1/6 " - - 13/6" "

Discount 5% and 2½% for Prompt Cash

Post your request for Display Card and Display Service to Room 6 at

P. H. GALLOWAY LTD. LONDON, S.E.17



The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON W.C.

MARCH 6,
1937.

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16.—**BOURNEMOUTH (NEAR).**—Main-road Cash Retail Business taking about £60 per week under management; excellent profits; stock worth about £1,000; very attractive fixtures; new lease; minimum price £2,650.

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19.—**HERTFORDSHIRE.**—Good Middle-class Business situate in growing area; returns about £30 per week; excellent profits; light oak fixtures; good, clean, saleable stock worth about £500; nice living accommodation; price of business £750; price of property £1,750; genuine reason for disposal.

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(C6) SOUTH-EAST MIDLANDS (CATHEDRAL, CITY).—Old-established, middle-class business with good living accommodation; increasing turnover; returns for last year, £1,450; reasonable rental; long lease; price to comprise value of stock and fixtures, together with goodwill, to be agreed (total will approximate £750/£800).

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(C8) BUSH HILL PARK (NEAR).—Attractive modern Pharmacy with up-to-date flat; no near opposition; turnover about £1,300 per annum; definite scope for further increase; price £850 or near offer.

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3.—BLACKPOOL.—Well-established Business, in good position; returns £1,750; net profit £350, after paying assistant; modern front; stock and fixtures worth £650; price £850.

4.—NORFOLK COAST.—Old-established Business; in same hands many years; retiring; returns last year £2975; plenty of scope in younger hands; price, including freehold, £1,300.

5.—LEIGH-ON-SEA.—Good-class Business; neglected; present returns £14-£15 weekly; can easily be doubled; attractive pharmacy, with splendid living accommodation; stock worth £300; must-sell, and will accept first reasonable offer.

6.—SLOANE SQUARE (near).—Good Middle-class Business; returning £1,550; attractive well-fitted shop; heavily stocked; rent covered by sub-letting; stock and fixtures worth £950; price £1,100.

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(C14) MANCHESTER.—Good profit-earning business with excellent living accommodation; turnover £2,100; net profit £550/£600; rent £68; lease 21 years; price £1,550, or near offer.

(C15) NORTH STAFFS.—Unopposed village business; returns about £1,300 per annum; rent £48, including living accommodation; price £650, or valuation terms if preferred; offers considered.

(C16) OLDHAM (NEAR).—Drug store with small house, situated on main road; turnover about £750 p.a.; scope for further increase; rent £35; price £450 all-at.

(C17) KINGSTON-ON-THAMES (NEAR).—Up-to-date Pharmacy with living accommodation; increasing turnover, at present averaging about £100 per month; reasonable rental; price £500 or offer.

(C18) PORTSMOUTH (NEAR).—Business with property, including living accommodation; present returns about £2,000 per annum; price of business £1,000; property £1,800, a substantial part of which could, no doubt, be raised on mortgage, if necessary.

(C19) HARROW.—Pharmacy offering definite opportunities for substantial development; spacious premises which produce a good sub-letting income; present returns about £1,400 per annum; price £750, representing less than value of stock and fixtures.

(C20) BOURNEMOUTH (NEAR).—Attractive modern Pharmacy with up-to-date flat; for an immediate sale, which is desired for genuine reasons, the value of stock and fixtures only will be accepted; turnover £1,400, with definite scope for further development; main road situation; exceptional opportunity.

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(C22) SUSSEX COAST.—Old-style Pharmacy with excellent house, occupying prominent position; present returns small, but capable of substantial increase; reasonable purchase price, to be arranged.

(C23) BRIGHTON (NEAR).—High-class Pharmacy occupying commanding position; scope for substantial increase over present returns, which average about £1,700 per annum; living accommodation; first reasonable offer accepted.

(C24) MERIONETHSHIRE.—Turnover for last year, £1,054; net profit £263; lock-up shop, situated in agricultural district; very low rental; price £500 all-at, including stock estimated at £400/£450.

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CHINGFORD (near).—General Retail; good Photographic (Kodak); returns £2,500, increasing; living accommodation, side entrance; double gates at rear; room for garage; lease 21 years; rent £120, rates £34; scope for Optics; audited accounts; lease, goodwill, fixtures, £1,250; stock at valuation (£400). 13/42, Office of this Paper.

EAST LONDON SUBURB.—Easily worked Business for Sale; good living accommodation; accountants' figures; taking average £2,300; key position in well-populated area; new lease granted; opening for Optician and keen Photographer; Kodak Stockist. 13/420, Office of this Paper.

ISLLE OF MAN.—For immediate Disposal, Well-established Chemist Business; excellent Private and N.H.I. Dispensing; increased summer trade; Kodak and Selo Agent; double-fronted; situated in main street of rapidly increasing residential district. For particulars and price, etc., apply 296/722, Office of this Paper.

KENT (25 miles from London).—Up-to-date Pharmacy in growing area; main-road position in shopping parade; living accommodation, garden and garage; no opposition; returns showing steady increase; net profit 1936-37, £450; stock and fixtures, £850; price £950; rent £84 per annum, or owner will sell property if desired. 13/1, Office of this Paper.

LINCOLN.—Business in populous part of city for Sale; returns approximately £800 per annum after 2½ years' tenancy; moderate living accommodation; rent and rates £1 per week; will sell for value of stock and fixtures, about £250, or stock can be cleared and fixtures only be taken by tenant. Apply T. Cook, 118 West Parade, Lincoln.

SOUTH COAST.—Residential Town.—Sound Business; returns £1,550 to £1,600; lease 6½ years; rent £100; comfortable house, small garden; same hands 13 years; good scope for increase in younger hands; Dispensing and Family; well fitted; price about £1,150. Apply 13/31, Office of this Paper.

SUSSEX COAST.—Old-established Pharmacy; good position, main road; ample living accommodation; present returns moderate; capable of big increase in right hands; a real opportunity for a well-experienced Chemist; good scope for Optics; stock and fixtures worth £500; price around £500; secure now for season. Write 13/55, Office of this Paper.

TWICKENHAM (near).—Excellent opportunity, owing to vendor leaving Pharmacy, to acquire established, high-class Retail and Dispensing Business in rapidly growing suburb near Twickenham, only 60 yards from station; large modern well-fitted and well-stocked shop, with roomy and convenient self-contained flat and garage, all in first-class repair and decoration; takings over £1,200 per annum, accountants' figures, and steadily increasing; long-term lease £350 per annum or offer, tenant's option to determine; price £1,000 or near offer; stock at valuation; option to acquire freehold if desired. P.C.B. 237/11, Office of this Paper.

WEST-END.—Old-established Pharmacy; lease at profit rental (total rent of premises £200 p.a., upper part sub-let £225 p.a.); returns last year £1,450; scope for increase; accountants' figures; £1,000 or near offer; retirement cause of sale. Full particulars from E. B. L. & Co., 69 Leadenhall Street, E.C.3. Phone: ROY 5031.

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ACTON HILL, LONDON, W.3.—Attractive Lock-up Shop to Let on Lease; good residential quarter; prominent corner position; bus stop; excellent opportunity for Chemist; rent £110 p.a. Apply 277 High Street, Acton Hill, W.3. Acorn 2594.

EALING, SOUTH.—Main-road modern double-fronted Shop; thickly populated surroundings; vacant early March; present Opticians, previously Chemists; airtight windows and showcase; 5 living rooms, scullery and bathroom, 2 w.c.s; brick outbuilding; conservatory; garden; back entrance; rent £100. Apply Owner, Buckland, 9 Lavington Road, West Ealing. Phone: 1059 Ealing.

HAMPSTEAD, FINCHLEY ROAD, SPLENDID OPPORTUNITY FOR HIGH-CLASS CHEMIST.—Large Shop and Upper Part of 5 rooms, etc.; fitted with a modern double front; rent only £200 p.a., exclusive, on lease. For full particulars apply Morris Land & Property Co., Ltd., 130 Mount Street, Berkeley Square, W.1. MAYfair 2056.

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SOUTHEND-ON-SEA.—Chemist, must sell, double-fronted Shop; good living accommodation; low rent. Apply Station Estate Office, opposite Prittlewell Station.

SHOPS with excellent living accommodation, Rosehill Parade, Henley Road, Oxford, to be Let on lease; situate in important position; recommended to multiple firms; shop fronts installed. For full particulars apply P. Chase Gardener & Co., 295 High Street, Hounslow.

WESTCLIFFE-ON-SEA.—Opportunity occurs to take over Bold Corner Shop Premises, tenanted for a number of years by Chemists, in established shopping centre; good living accommodation; to Let on Lease. For particulars apply Sidney R. Davis, F.A.I., 33 Hamlet Court Road, Westcliff-on-Sea.

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HIGH-CLASS Shops to Let in best part of High Road, Streatham, from £140-£500 p.a. Apply Letting Manager, 17 Streatham High Road (Phone: Streatham 9627), or Bell Investment Trust, Ltd., 115 Park Street, Mayfair, W.1. (Phone: Mayfair 4201).

SHOP to Let on Lease; most suitable for Chemist; main business street. Apply 31 Preston Street, Faversham.

SOUTHEND-ON-SEA.—Chemist required; double-fronted shop; good living accommodation; low rent; all Staybrite steel front. Apply Station Estate Office, opposite Prittlewell Station.

SHOPS with excellent living accommodation to be Let or Sold, Twickenham (Powder Mill Lane); splendid trading position; shop fronts installed; rents from £120 per annum; prices from £1,375 freehold. For full particulars write P. Chase Gardener & Co., 295 High Street, Hounslow.

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TENDERS

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PUBLIC ASSISTANCE COMMITTEE.
TENDERS.

THE Public Assistance Committee of the Wilts County Council are prepared to receive tenders for supplying their Public Assistance Institutions, the Marlborough Children's Hospital, Children's Homes and the M.D. Institutions at Pewsey, Purton and Wilton, with DRUGS AND SURGICAL DRESSINGS for twelve months, commencing on the 1st April, 1937.

Forms upon which tenders must be submitted may be obtained on application to the Public Assistance Officer, County Offices, Trowbridge, and must be returned to the undersigned by the 15th March, 1937.

The Committee do not bind themselves to accept the lowest or any tender.

County Offices, W. L. BOWN,
Trowbridge, Clerk of the Council.
Wilts.
2nd March, 1937.

AN IMPORTANT FIRM in the Dominions proposes to extend their activities and to equip a modern factory for the Manufacture and Packing of Drugs, Pharmaceutical Tablets, Cosmetics, etc.

They will require modern plant and equipment and invite catalogues, price lists and details from Manufacturers of Chemical Plant and Machinery, including Filling, Labelling, Mixing, Tableting, Corking and Packing Machinery.

Correspondence is also invited from Bottle and Bottle Closure Manufacturers, Label Printers and Carton Manufacturers.

Correspondence, lists and catalogues should be addressed to 296/708, Office of this Paper.

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BIRMINGHAM.—A vacancy occurs for a Branch Manager, preferably with experience, possessed of initiative; expert Dispenser, a good Displayman; able to push business; the position is a progressive one, and a permanency. Applicants should apply with full particulars as to experience, personal appearance, and salary required to 12/10, Office of this Paper.

BIRMINGHAM.—Junior Unqualified Assistants required, male or female. Apply with full particulars to Hedges (Chemists) Ltd., 10-12 Dale End, Birmingham.

CARDIFF.—Qualified Assistant wanted by March 18; must be of good appearance and well up in Photography and Window-dressing. Apply, with photo, salary required and two recent references, Frank Edwards, 46 Cardiff Road, Llandaff, Cardiff.

LEICESTER.—Unqualified gentlemanly Assistant required; must be neat, accurate Dispenser and Window-dresser; used to good-class Pharmacy. Send usual particulars, with photo if possible, when disengaged and salary required, 13/13, Office of this Paper.

LONDON, N.W.7.—Unqualified Assistant, lady or gentleman, required immediately for good-class business; applications not answered within five days respectfully declined. Tolley & Co., 107 The Broadway, Mill Hill, N.W.7.

LONDON, S.W.—Qualified Assistant (22-24 approx.), with good Dispensing and Counter experience. Write, stating references, height and salary desired, when disengaged, P.C.B. 237/6, Office of this Paper.

LONDON SUBURBS.—Qualified Man as Manager; married; living accommodation provided; must be experienced, capable at Counter, Dispensing, Window-dressing and Photo; keen Salesman and reliable worker; at liberty by March 19. Give full particulars and salary required, times for interview, 13/15, Office of this Paper.

LONDON, WEST END.—Qualified Assistant (male) required for high-class business. Full particulars age, height, salary expected, and previous experience, 296/719, Office of this Paper.

MANCHESTER.—Experienced Qualified Branch Manager required (25-30) for working-class district with large N.H.I.; give full particulars and salary required. 12/401, Office of this Paper.

MANCHESTER.—Qualified Young Lady Assistant required for City Pharmacy. Apply, giving full particulars and salary required, enclose photograph if possible, 12/12, Office of this Paper.

MANCHESTER.—Wanted, experienced Qualified Chemist (male or female), permanency, from 2 to 8 p.m. daily, for working-class district; state age and salary required. 12/4, Office of this Paper.

S.E.1.—Young Qualified Assistant for main-road branch; March 22; General Retail and N.H.I.; usual hours and light Sunday duty; permanency. Apply Austins, Ltd., 198 Bermondsey Street, S.E.1.

SOUTHEND-ON-SEA.—Experienced Qualified Chemist required; state salary. Apply Williams, 114 East Street, Prittlewell.

A QUALIFIED Assistant (young), lady or gentleman, required for Dispensing, Counter and Window-dressing; capable of taking charge when required; permanency for suitable person; state age, height, salary expected, and usual particulars. I. M. West, Ltd., 11 High Street, Crayford, Kent.

A PPRENTICE or Unqualified Assistant wanted for Dispensing and Counter Work. Call or write, Bedford, c/o 177 Lewisham High Road, London, S.E.

A SSISTANT required for busy good-class Pharmacy; permanency; must be quick, accurate Dispenser; pleasant manner (if free for interview this Sunday, please 'phone Dorking 2566 (expenses paid)); give usual particulars re experience, age, wages required. Mr. Nicoll, Peebles-Chemists, High Street, Dorking, Surrey.

A SSISTANT, Unqualified, single, male, for High-class Pharmacy; good Dispenser and Window-dresser. Give full particulars and salary required first letter, Balkwills, Chemist, 106 Old Town Street, Plymouth.

A SSISTANT, young, Unqualified, wanted early April in attractive Kent suburb; Dispensing, good Window-dresser and Counter manner; Improver would suit; state age, salary required, when free; experience; enclose snap (to be returned); permanency. 13/17, Office of this Paper.

E STABLISHED Drug Stores, now being formed into a private limited company, require a Qualified Manager, lady or gentleman. Reply, stating experience, wages required and recent photograph if possible, 11/6, Office of this Paper.

EXPERIENCED Pharmacist required; able to control large staff, supervise Display and maintain Stocks in a busy West End Pharmacy; wide knowledge of Foreign Proprietaries, etc.; good salary and commission to steady and capable man. Write Box 4933, Frost-Smith Advertising, 64 Finsbury Pavement, E.C.2.

JUNIOR Assistant required March 15; good all-round experience; quick and reliable Dispenser essential; give fullest particulars first letter, age, height, experience, salary required, Massingham's, Ltd., 34C Green Street, London, E.2.

LADY Assistant required for busy good-class Pharmacy; permanency; must be quick, accurate Dispenser; pleasant manner (if free for interview this Sunday, please 'phone Dorking 2566 (expenses paid)); give usual particulars re experience, age, wages required. Mr. Nicoll, Peebles-Chemists, High Street, Dorking, Surrey.

LADY, Qualified, wanted chiefly for N.H.I. Dispensing; comfortable position; permanency; Midlands. Apply, giving full particulars, age, with photo if available and salary required, 13/48, Office of this Paper.

LOCUM.—Experienced Lady required to take charge of a Small Drug Store in village for three weeks commencing about June 21. Apply, with references and stating salary required, to Mrs. Turner, Church Street, Willingham, Cambridge.

MANAGER required for small High-class Branch Pharmacy in residential district; state age, height, whether married or single, salary required and when disengaged; good living accommodation; with reply give particulars of experience, with references and photo. Apply "L. J." c/o 42 Old Tiverton Road, Exeter.

PHARMACY.—Female Assistant required; must have had General Pharmaceutical and Shop experience; widows and single persons only considered. Apply in writing, stating age and experience, to the Staff Manager, Royal Arsenal Co-operative Society Limited, 113 Powis Street, Woolwich, S.E. Endorse envelope "Pharmacy." Note.—Canvassing of members of the General Committee or Officials will disqualify.

PHOTOGRAPHY.—Junior Assistant in *entirely* Photographic Business; preference given gentleman with some knowledge of Photographic and Kindred Apparatus anxious to gain experience in sale of First-class Instruments; permanent progressive position for right applicant. Please give fullest particulars in first letter, stating when free and present salary, Stead, Duke Street, Brighton.

QUALIFIED Assistant (male) for good-class Pharmacy in London (West End) for April 5; good appearance essential; must be accurate Dispenser and tactful Counterman; state age, height, experience and salary expected. C. R. Wood, 164 Notting Hill Gate, W.11.

QUALIFIED Assistant, male or female, required for Retail Business, London; good appearance; keen Salesman and accurate N.H.I. Dispensing. Give full particulars re age, height and experience, references and salary required, 13/30, Office of this Paper.

QUALIFIED Assistant (under 30), with view to Managership later; Medium-class Cash Business, London, S.W.; must be good Window-dresser and tactful Counterman; experience in Photographic, Optical or Surgical Departments desirable; moderate but reasonable commencing salary, with good prospects for suitable man not afraid of work; state age, height, full details of experience, when at liberty and salary required. 13/38, Office of this Paper.

QUALIFIED Assistant wanted, either sex, for March 15; used to N.H.I. and good Window-dresser; middle-class business. Write, stating full particulars and when disengaged, Smith, Chemists (Grays), Ltd., Tudor House, The Parade, Sockets Heath, Grays, Essex.

QUALIFIED Lady Assistant wanted; to commence middle of April; quick Counter and N.H.I.; working-class district; permanency. State salary, particulars, etc., to J. W. Cole & Son, Ltd., 248 Infirmary Road, Sheffield, 6.

QUALIFIED Locum wanted; good-class Dispensing Business. Woolls, Ltd., 272 Northdown Road, Margate.

QUALIFIED Man required as Shop Manager; should he really keen business man as well as a Pharmacist; multiple experience considered an advantage, though not necessary. Send fullest particulars, together with photo and salary required, to Wards Ltd., 12 Haymarket, Leicester.

QUALIFIED Manager (25-35) for London shop; tall; business recently established; good opportunity for capable man; no Sundays; reply full particulars first letter, salary required; only those free or within 7 days please reply; photo if possible. 14/5, Office of this Paper.

QUALIFIED Managers, London.—Multiple firm, opening new branches, have several good positions for the right men; energetic business builders required. 12/8, Office of this Paper.

QUALIFIED MANAGERS REQUIRED.—Married Man (between 25 and 40) for South Devon; to live above the premises. Also Single Man for Wiltshire. Full particulars in first letter, stating when free, 13/11, Office of this Paper.

UNQUALIFIED Assistant, experienced, required for Western Suburb of London. Apply, giving full particulars of experience and salary required to "J." 297/726, Office of this Paper.

UNQUALIFIED Assistant required (male); one who has had experience in good-class Retail and Dispensing business. Apply (by letter), with full particulars and salary required, to A. E. White, Chemist, Ashford, Kent. Applications unanswered in three days declined.

UNQUALIFIED Assistant, young, required shortly for Counter and Relief, with good training and references; please state full particulars and send photo, returnable. Lester, Chemist, 1 Station Road West, Canterbury.

UNQUALIFIED Junior immediately required for High-class North London Pharmacy; good Dispensing experience essential. Give full particulars and salary required to 13/45, Office of this Paper.

WANTED.—An Unqualified Assistant; good Salesman, Window-dresser; thoroughly honest and trustworthy essential. Write, stating full particulars, age, salary, experience and when free, to "K." 77 High Street, London, N.W.1.

WANTED, male Dispenser-Book-keeper, married; Woodford Green, Essex; reside in surgery flat; light and rent free; salary £2 15s. weekly. 12/11, Office of this Paper.

WANTED, Somerset.—Pharmacist to manage small branch near Minehead; excellent accommodation available. Apply, stating age, experience, salary required, enclosing photograph, to be returned, to 11/2, Office of this Paper.

YOUNG Unqualified Assistant wanted; good Dispenser and pleasant Counter manner. Apply, giving full particulars height, age and salary required (copies only of testimonials to be sent), A. Lloyd Davies, 2 High Street, Woking, Surrey.

WHOLESALE

LONDON Manufacturing Chemists with established connexion require Representative for Greater London north of Thames; salary and commission; send fullest particulars of experience with view to an interview. 13/12, Office of this Paper.

A PROMINENT Manufacturing firm requires a well-educated Representative for Medical Propaganda; good personality and knowledge of therapeutics essential; previous experience an advantage; state fullest details and salary expected. 296/714, Office of this Paper.

A SPLENDID opportunity occurs for Manager-Organiser with past experience and full knowledge in Rubber Specialities and Sundries; good prospects for right man; give full details, in strict confidence. 297/727, Office of this Paper.

COPYWRITER required for permanent position, with excellent prospects, North London; must have knowledge of Medical and Pharmaceutical subjects and ability to write monographs and design showcards; enthusiasm essential. Apply, with full particulars of career and salary required, to 296/716, Office of this Paper.

COSENTOICS.—Required for Rouge and Lipstick Department, man thoroughly capable and experienced in Cosmetic Manufacture. Applications must be by letter only, giving full particulars as to age, experience, and salary required, addressed to Chief Chemist, Bourjois, Ltd., Bourjois House, Queens Way, Croydon.

COST Clerk required for North London Wholesale Chemists (age over 20); must be experienced in London Sundries House. Apply, in own handwriting, stating experience and salary required. 296/715, Office of this Paper.

FRUIT SQUASHES AND LEMON-BARLEY WATER (lines exclusively for Chemists).—Representatives required for Lancashire and North Wales; Somerset, Gloucestershire and South Wales; Midlands, and Eastern Counties; state age, experience and exact territory covered. 297/725, Office of this Paper.

MALE or Female experienced Granulator required for Manufacturing Chemists in S.E. London. Write, stating salary required and full particulars, to 297/724, Office of this Paper.

MESSRS. SAVORY & MOORE, LTD., require for their Medical Propaganda Department an Assistant capable of taking charge of a section; previous experience is an advantage. Write, giving full details and salary required, to Mr. H. S. Frid, Savory & Moore, Ltd., 61 Welbeck Street, W.1.

PACKER, used to banding Export, required by London Wholesale Druggists. Particulars to 296/723, Office of this Paper.

QUALIFIED Chemist required by Manufacturing Chemists; knowledge of Cosmetics and Manufacturing experience essential; state full details, experience and salary required. P.C.B. 236/30, Office of this Paper.

RELIABLE Travellers wanted for Provinces, etc., calling on the Dental Profession, who could handle additional interesting speciality lines, on good commission basis. Write particulars, experience, and state territory covered, "Wiese Bur Service," 6 Dartmouth Road, London, S.E.23.

REPRESENTATIVES (age about 30) wanted; experienced in calling on Chemists, Hairdressers and Stores for following territories: Birmingham, Gloucester, Derby, Leicester, Northamptonshire. Apply by letter only, with full particulars, to Walden & Co. (Nufix), Ltd., Rookery Way, The Hyde, London, N.W.9.

REPRESENTATIVE for the Eastern Counties and South-East Coast of England.—Smart young Salesman, with own car and good connexion amongst Chemists, Druggists, Surgical Stores, etc., wanted for first-class Surgical and Medical Rubber Goods; satisfactory references required; young man with initiative and personality can build up remunerative position; liberal commissions allowed and minimum weekly earnings guaranteed, or expenses and commission. Applications to 12/5, Office of this Paper.

REPRESENTATIVE required for London, with good connexion among Stores and Wholesale Houses; Salesmanship essential; good position for right man. Apply, giving full details, to 13/200, Office of this Paper.

REPRESENTATIVE required; must be first-class Salesman with good connexion; Drugs, Packed Goods and Specialities. Apply, with full details of experience, etc., to 13/20, Office of this Paper.

REPRESENTATIVE wanted for London area having good connexions with Stores and Chemists; own car necessary; expenses, salary and commission. 296/721, Office of this Paper.

REQUIRED by well-known Wholesale house, an Assistant capable of taking charge; experience of Medical Specialities and Patent Medicines essential. Write, giving full details and wage required, to 296/718, Office of this Paper.

REQUIRED for Yorkshire by high-class Manufacturing Biological and Pharmaceutical Chemists, Representative, with good education; knowledge of Medicine an advantage; residence in Yorkshire essential. Write 296/717, Office of this Paper.

WELL-KNOWN Organisation will shortly have vacancy for Qualified Chemist who, after training, will be appointed Supervisor to representative staff; must be experienced in contacting trade and professions (age 28-32); good appearance; resident in London; good salary and prospects to man who is prepared to study and take keen interest in control and development of personnel. 296/713, Office of this Paper.

COLONIAL, INDIAN AND FOREIGN

BRITISH WEST INDIES.—Young Qualified Chemist Assistant required for Trinidad; good experience essential. Write, stating age, full details of experience, salary expected, to "West Indies," c/o W. Abbott, Ltd., 32 Eastcheap, London, E.C.3.

WANTED (EAST AFRICA).—Qualified Assistant Chemist (not over 35) with Optical qualifications; good health; preferably abstainer; Photographic experience also desirable; 4 years' agreement; commencing salary £32 10s., rising to £40 monthly; send photo with details record, copies testimonials. Apply 296/720, Office of this Paper.

SITUATIONS WANTED

RETAIL (HOME)

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

A.A.A.A.A.—CHEMIST-OPTICIAN, M.I.C.O., M.P.S., F.N.A.O., F.I.O., young, keen, energetic, experienced in Optics, Pharmacy, Biochemical Analysis and small-scale Manufacture, used to controlling staff, shortly requires permanent position of trust showing fair salary for services; most excellent references; interview arranged; photo and references on request. "Chemist," 182 Benhurst Avenue, Elm Park, Romford, Essex.

A.A.A.A.A.—QUALIFIED Scot (26), of smart appearance and address, at present managing large high-class Chemist and Photographic business in residential London suburb, desires change, with good prospects for capable man; first-class references; interview arranged. 249/45, Office of this Paper.

A.A.A.—ASSISTANT (24), Unqualified, seeks position in City or West End; 6 years' excellent experience (2 years West End); capable Dispenser, efficient Salesman; trustworthy; excellent references. 13/5, Office of this Paper.

AN experienced Dispenser desires position in good-class business in London or suburbs; thorough knowledge of Pharmacy; tall, good appearance; interview. "W. H.," 40 Woodfield Drive, Gidea Park, Essex.

AN Unqualified Assistant (24); tall and of good address; experienced Dispenser; West End or City. 13/44, Office of this Paper.

ASSISTANT, good all-round; 16 years last reference; Unqualified; permanency or locum; London area. Stevens, 46 Maybury Gardens, Willesden Green, N.W.10.

ASSISTANT, Unqualified, desires position; best all-round West End experience; disengaged. "M.," 25 St. Stephen's Road, Bayswater, W.2.

ASSISTANT, Unqualified; experienced Dispensing, Counter, Photography, Window-dressing; courteous and trustworthy; London or near; interview arranged. 13/43, Office of this Paper.

ASSISTANT; West-End experience Counter and Dispensing; good reference; recently disengaged; locum or permanency; London only. Write to M. G. Birch, 4 Melrose Gardens, Hammersmith, W.6.

ASSISTANT (42), Unqualified, experienced, energetic and reliable, seeks permanency; West of England preferred; 15 years' excellent references. Apply 13/28, Office of this Paper.

BIRMINGHAM DISTRICT PREFERRED (not essential).—Locum work undertaken; thoroughly experienced and well recommended. Wire or write Hanley, 180 Lozells Road, Handsworth, Birmingham.

CANADIAN Qualified Chemist, at present employed, seeks position in Great Britain; good appearance, manners and references; highly experienced in Dispensing, Store Management, Modern Merchandising, Window Display, Advertising and Business Creation generally. Write "Pharmacist," c/o 301 Power Building, Winnipeg, Canada.

CHEMIST (28), smart personal appearance, address, requires permanency with reputable firm, City or West End; late manager Piccadilly; highest references; excellent experience. Chemist, 67 Guilford Street, W.C.1.

CHEMIST, 25 years as Branch Manager (retired on pension), offers services as locum in Middlesex, Herts or Bucks. "Pharmacist," "Dunollie," Lancing Way, Croxley Green, Herts.

DISPENSER, gentleman (3 years with Doctor previous 1911); temporary or permanent; whole or part time; capable. 65 Cloudesley Road, N.1.

EVENINGS.—Lady Pharmacist offers her services in Birmingham to Chemist or Doctor. "H." 70 Woodland Road, Northfield.

EXPERIENCED Senior; used to Management, West End and suburban; free; permanent or locum. "M.P.S.," 152 Sutherland Avenue, Maida Vale, W.9.

GENTLEMAN (26), university education, some Retail experience, desires position as Apprentice-Improver with high-class Chemist or Firm view qualification; moderate salary. "Medicis," 40 Cambridge Gardens, W.10. "Phone: Park 4411.

HALL Dispenser (experienced), with Matriculation (distinction in Chemistry), requires post, Doctor, Chemist, etc. 27 Street Lane, Leeds, 8.

LADY Dispenser (Hall), experienced, requires post with Doctors, any part of British Isles; excellent testimonials. L. Perrins, The Cottage, Chester Road, Delamere, Cheshire.

LADY Assistant seeks post; conversant with high-class Toilets, Cosmetics, etc.; full knowledge of Proprietary Medicines; no Dispensing; used to keeping Chemists' accounts; London preferred. 14/2, Office of this Paper.

LADY Dispenser, Hall Certificate, seeks post with Doctor or Chemist; would accept small salary in return for experience. 13/47, Office of this Paper.

LADY Dispenser (34), Hall, desires move to London or district; Surgery and Hospital experience. 12/16, Office of this Paper.

LOCUM, Qualified (39); free now; any period. Write or wire: Locum, 4 Ashford Avenue, Ashford, Middlesex.

L.P.S.I.—LADY, very experienced, thorough knowledge of Pharmacy, desires position as Assistant; London or suburbs; excellent testimonials. 13/18, Office of this Paper.

MANAGER or Assistant, Qualified (28) (provinces), desires change, London area; excellent Counterman, Window-dresser; temporary position entertained; well recommended; interview. 11/7, Office of this Paper.

MANAGER, Qualified, tall, married; experienced in all branches (present situation 8 years); good Buyer and Stock-keeper; £25 per week; London or near preferred; free 5 weeks. 13/25, Office of this Paper.

M.P.S., YOUNG, energetic, desires change, London situation; West End experience; Assistant capable of management. 11/3, Office of this Paper.

PHARMACIST offers services as Manager; thoroughly experienced Counter, Dispensing, Photos, Toilets, etc. "Pharmacist," 23 Old Manor Drive, Isleworth, Middlesex.

PH.C. (26) wishes locum work or permanency (Hospital or Retail); locum experience. 13/4, Office of this Paper.

QUALIFIED (26), Assistant or Manager; keen, conscientious; used to middle-class business and quick Dispensing. 11/5, Office of this Paper.

QUALIFIED (27), seeks position as Manager; capable and thorough, with good all-round experience; permanency giving opportunity of settling preferred. Hodder, c/o Christopher, Chemist, Bradford-on-Avon, Wilts.

UNQUALIFIED Assistant (28), gentleman; good-class Dispensing, Counter experience; excellent testimonials. "Assistant," 44 Meads Lane, Seven Kings, Ilford, Essex.

UNQUALIFIED (Part I), male (age 20), seeks position; West End and suburban experience in Dispensing, Counter and Window-dressing; good references. H/S, Curtis Advertising, Ltd., 14/16 Regent Street, S.W.1.

UNQUALIFIED (38), 20 years' experience, requires position; good Dispenser and Counterman; married. "R. P.," 15 Sawley Avenue, Blackpool.

WHOLESALE

PERFUMERY, Soap and Toiletries.—Advertiser, late sales director of well-known company, desires appointment; over 20 years' experience in every branch of the industry. Production (including practical box-making and printing), Management and Sales Direction; executive positions held for past 16 years; fully conversant with modern requirements, sales avenues, demonstrations and showrooms, etc.; would welcome opportunity of joining smaller company desirous of increasing its activities by means of progressive policy plus extensive general knowledge of the trade. 297/728, Office of this Paper.

A QUALIFIED Manager (25), smart appearance, desires position as Representative; expert Salesman; first-class references; own car. Reply, 13/14, Office of this Paper.

A YOUNG Unqualified Gentleman, with excellent experience in all branches of Retail, desires situation with Wholesale house of repute with a view to representation; energetic; hard worker; car driver. 13/29, Office of this Paper.

ADVERTISER, single (38), adaptable, smart and progressive, abstainer, seeks post, Checker, Assembler, Stock-keeper or Dryroom Assistant; 20 years' experience Wholesale trade; excellent references. 13/27, Office of this Paper.

CHEMIST (28), smart appearance, address, late manager Piccadilly, offers services as Representative or Medical Propagandist; car owner. Apply 13/33, Office of this Paper.

FOREWOMAN seeks position in Factory; used to controlling large staff of female labour; experienced labelling and wrapping. 13/41, Office of this Paper.

MEDICAL Representative, Sales or Propaganda, seeks appointment; salary, expenses; own motor-car; first-class experience London, provinces; highest references. P.C.B. 237/2, Office of this Paper.

PHARMACIST offers services as Representative or Medical Propagandist; thoroughly experienced as Retail and Hospital Pharmacist; car available. "Pharmacist," 23 Old Manor Drive, Isleworth. POPesgrov 4281.

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S. E. HACKETT, 23 July Road, Liverpool

REPRESENTATIVE, Qualified, covering Northern Ireland, desires additional lines, Pharmaceutical, Toilet and Sundries, on commission; highest references; own car. 13/19, Office of this Paper.

UNQUALIFIED Young Man (25), 10 years' Retail experience, smart appearance, excellent references, desires representative position with Wholesale House; Northern district preferred. 12/18, Office of this Paper.

COLONIAL, INDIAN AND FOREIGN.

AMIDDLE-AGED Gentleman, having recently retired from business, fully conversant, with 18 years' experience of the Drug Trade in the Union of South Africa and Rhodesia, desires to represent a reputable firm of Wholesale and Manufacturing Chemists in the Dominions; owns a car and is accustomed to call on clients, Doctors and Chemists; references on application. 13/10, Office of this Paper.

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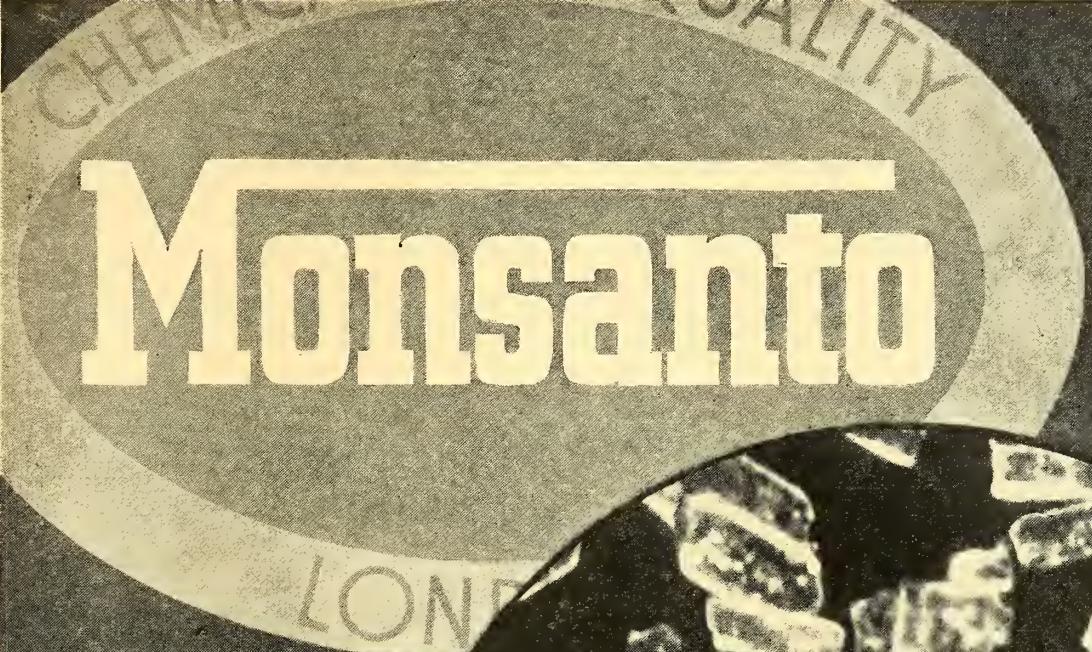
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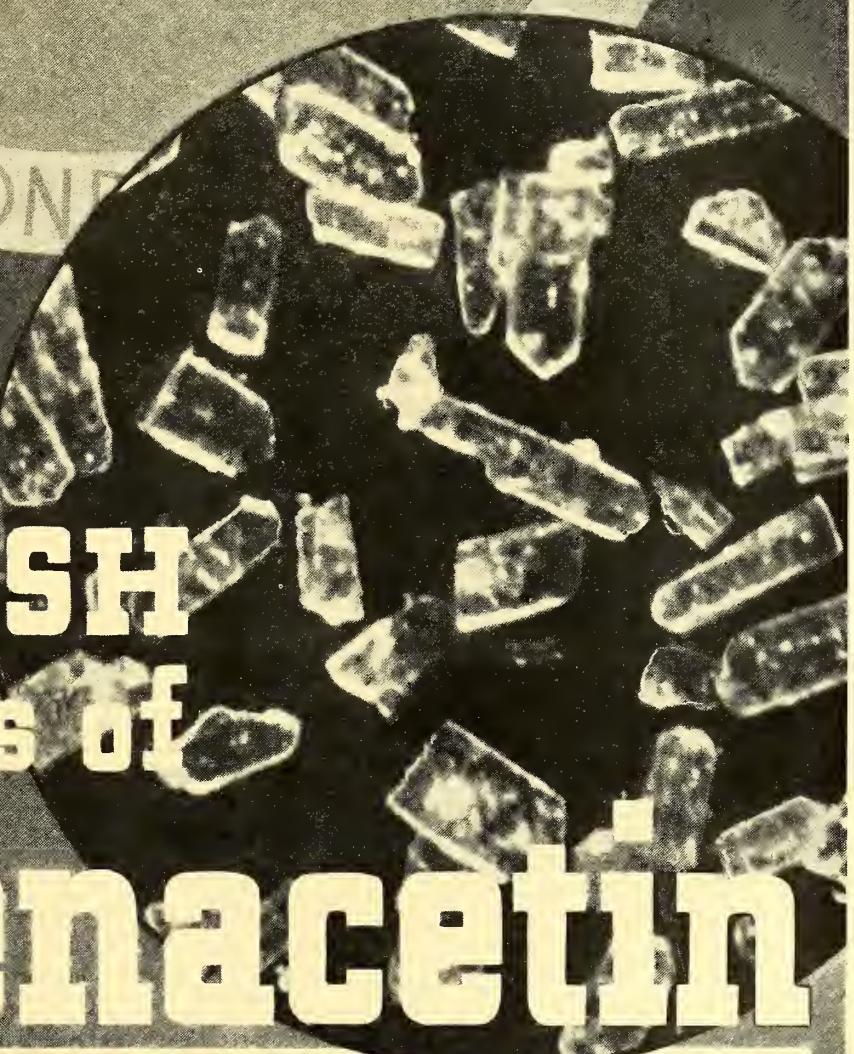
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